Norman Bird

The Roots and Non-Roots of Indo-European

A Lexicostatistical Survey

Harrassowitz Verlag
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INTRODUCTION

The aim of this study is to update its predecessor *The Distribution of Indo-European Root Morphemes (A Checklist for Philologists)* (1982) as a result of the advances in this academic field in the last ten years.

My earlier book had the stated purpose of reproducing in a handy form what Pokorny's etymological dictionary (1959, 1969) implies to be the corpus of root morphemes of Indo-European origin. When writing my earlier book Pokorny's dictionary was frequently dismissed as being sorely out of date and representing the stage reached in philological scholarship in the late 1930s. Despite this general criticism, however, no other compact authoritative dictionary of the same kind had appeared to replace it by 1982, and since that date other etymological surveys clearly based on Pokorny's work have continued to be published, e.g. Watkins (1985) and Claiborne (1989).

Watkins updates Pokorny's work either in confirming some of his suppositions or modifying them in line with modern scholarship. These changes, although not substantial, are taken into consideration in this new survey.

The publication of S.E. Mann's *An Indo-European Comparative Dictionary* in eleven fascicles from 1984–87 represents a more fundamental rethinking and reworking of the data that have become available to Indo-European philologists since Pokorny's work was published. Unfortunately, after working for more than half a century on this project, Mann died shortly before the last three fascicles (9–11) of his work appeared. As a consequence, without underestimating its enormous importance, the work is still in many ways incomplete. It contains numerous printing errors, several infelicities in the cross-referencing, but most seriously of all, it has no index.

In order to incorporate Mann's findings in my own work, therefore, it was necessary first to devise my own index. This research is adequate for the limited survey that I am attempting, but I have no doubt a more extensive and improved index can be compiled in the future as a result of the recent development of computer scanning and concordancing techniques. Corrections and revisions of any studies based on Mann's findings will then be easier to carry out.

The ten years since *The Distribution of Indo-European Root Morphemes* was published have seen the appearance of another study of quite a different kind which makes me believe a reworking and updating of my material is worthwhile. In archaeology Renfrew (1987) puts forward an alternative to Gimbutas (1974) concerning the puzzle of Indo-European origins. Two points which are worth noting in particular emerge from Renfrew's work.

Firstly Renfrew, although an archaeologist and not a philologist, while realising the modest nature of the tool my research provides, sees its potential value for his own work. He understands that a high proportion of common roots rather than cultural words in two language groups implies a high degree of recent cultural interaction between the speakers of languages with those groups and that this process needs to be plotted and measured.

Secondly, his theory that the Indo-Europeans had an early homeland in mainland Greece circa 6000 B.C., which predated their settlement in the Ukraine circa 4200 B.C., seems to gain support from a statistical study of co-occurrences of language groups. If Renfrew (1987:193) had compared the number of Hellenic co-occurrences with those of other language groups listed in Bird (1982:119 and reproduced in Table 3 in this volume), instead of only noting the close interrelationship of Indic and Iranian, he would have found lexicostatistical support for his theory of Indo-European farmers spreading into Greece from Western Anatolia in the seventh millenium B.C. The revised statistics contained in this volume make the situation even clearer.

THE THREE TABLES

The main body of this work consists of just three sets of tables and these are described in detail below.

TABLE ONE comprises:

1. two lists of Indo-European root and non-root morphemes in alphabetical order,
2. an indication of their area of meaning,
3. their distribution throughout the fourteen Indo-European language groups.

This is illustrated in figure 1.

(a)	(b)	(c)	(d)	(e)
1296	2. NEIK	to rise	x M x x 5 x x M M P 11 12 x M	7/4

Figure 1. A sample entry in Table One

The meaning of each section in the entry is as follows:

a. 1296: the overall serial number of this entry within Pokorny's dictionary which contains 2,044 relevant entries in all.

b. 2. NEIK: the first starred headform appearing in Pokorny (but possibly changed by Mann).

c. to rise: one of the probable meanings of the starred form.

d.

1	2	3	4	5	6	7	8	9	10	11	12	13	14
	M			5		M	M		P	11	12		M

The Indo-European groups in which derivatives of the starred form occur.

The numbers at the head of each page in Table One indicate the fourteen groups of Indo-European origin in the order in which they occur in Pokorny, which is as follows:

1. Indic
2. Iranian
3. Armenian
4. Phrygian and Dacian
5. Greek (or Hellenic)
6. Illyrian
7. Albanian
8. Italic (or Romance)
9. Celtic
10. Germanic
11. Baltic
12. Slavonic (or Slavic)
13. Tocharian
14. Hittite (or Anatolian)

For the complete list of the components of each of these groups, see Pokorny (1969: 493–495).

In figure 1, therefore, the numbers 5, 11, 12, indicate that derivatives of "2. NEIK" occur in Hellenic, Baltic and Slavonic, and this is agreed by both Mann and Pokorny. 'M' indicates that the derivative is found in Mann (or in very few cases in Watkins), and 'P' in Pokorny only. A question mark (?) indicates a possible derivative occurs in Mann, and an asterisk (*) a possible derivative occurs in Pokorny. These signs are ignored in considering the size of the set described in 'e' below. A cross reference such as 'P/M 11' in "28 AIG' goat. P/M 11" indicates that both Pokorny and Mann agree that the entry should be subsumed under entry '11', i.e. "11 2.AG' he goat".

e. 7/4: the size of the set. The first figure indicates the number of derivatives according to Mann, and the second figure indicates the number according to Pokorny.
It is self-evident that the size of a set subsumes various patterns within the set, e.g. 1,2,3,4; 2,5,8,14; 5,10,11,12; etc.

TABLE TWO contains:

1. a complete list of the sets of occurrences listed in a logical sequence according to the patterns established by their elements;
2. the number of patterns of the same kind within each set;
3. the elements constituting these patterns according to their serial numbers; see section 1 of the explanations of Table One.

If we consider once again our example: '1296 - 2. NEIK to rise', we see that according to Mann, it contains seven items, namely 2, 5, 8, 9, 11, 12 and 14, (the code numbers for Iranian, Hellenic, Italic, Celtic, Baltic, Slavonic and Hittite).

In Table Two this example will be found in the section 'Sets of 7 Occurrences', viz.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	No.	Items
x	2	x	x	5	x	x	8	9	x	11	12	x	14	1	1296

The maximum number of combinations (or patterns) possible with fourteen elements according to the Pascal triangle is 16,384; this is calculated by use of the standard statistical formula:

nCr = nPr divided by r.

As only 2,044 items (i.e. the total number of entries in Pokorny) are under consideration in this study, the probability of the same combination (pattern, set) occurring twice by chance is 2,044 divided by 16,384, i.e. approx. 8:1.

The chances of the same combination occurring more frequently by chance is obviously less that 8 to 1, and is, in fact, often so small as to be infinitesimal. The fact that it frequently occurs must, therefore, be of linguistic significance, and is worthy of further research. As this study is concerned, however, with recording what the research of Mann, Watkins and Pokorny has uncovered, little or no attempt is made to interpret their findings.

In passing, however, it should be noted that, as illustrated by the following list, the largest number of patterns of the same type occur in those sets which contain on the whole the smallest number of items (or elements) in the case of Pokorny, but not in the case of Mann:

Occurrences	Pattern														Most typical pattern with amounts in Mann and (Pokorny*)	
14	1	2	3	4	5	6	7	8	9	10	11	12	13	14	4	(1)
13	1	2	3	x	5	6	7	8	9	10	11	12	13	14	13	(4)
12	1	2	3	x	5	x	7	8	9	10	11	12	13	14	35	(9)
11	1	2	3	x	5	x	7	8	9	10	11	12	13	x	25	(12)
10	1	2	3	x	5	x	7	8	9	10	11	12	x	x	33	(12)
9	1	2	3	x	5	x	x	8	9	10	11	12	x	x	13	(18)
8	1	2	x	x	5	x	x	8	9	10	11	12	x	x	14	(22)
7	1	x	x	x	5	x	x	8	9	10	11	12	x	x	8	(18)
6	x	x	x	x	5	x	x	8	9	10	11	12	x	x	6	(10)
5	x	x	x	x	x	x	x	8	9	10	11	12	x	x	9	(12)
4	x	x	x	x	5	x	x	x	9	10	x	12	x	x	9	(20)
3	x	x	x	x	5	x	x	x	x	x	11	12	x	x	7	(35)
2	x	x	x	x	5	x	x	x	x	10	x	x	x	x	13	(44)
1	x	x	x	x	5	x	x	x	x	(10)	x	x	x	x	3	(14)
Total	8	7	6	1	13	2	5	10	11	13	11	12	4	3	Occurrences in each language	

*For further discussion of Pokorny's findings, see Bird (1982: 9–10)

TABLE THREE addresses the proportional relationship of each of the fourteen language groups to each other in terms of:

a. the actual number of times any two particular language groups co-occur in proportion to their individual total number of occurrences;
b. rounded percentages;
c. the correlation to a universal base figure of '1' calculated to two rounded decimal places.

It is hoped that these calculations will be of value within the fields of lexicostatistics and glottochronology in which hitherto there has been a tendency to base theories on a small number of basic cultural words rather than, as has been implied here, on a larger number of root morphemes.

A select bibliography is also included after Table Three.

FINAL REMARKS AND CONCLUSIONS

As has already been stated above, the purpose of this work is neither to draw conclusions nor develop theories, but to provide a handy tool in the form of a checklist in order to simplify the work of a wide range of linguists working in different fields of research. Nevertheless it is inevitable that in compiling this piece of research on the work of Pokorny, Watkins and Mann, certain points have arisen which are worthy of further consideration.

The largest number of entries in both Pokorny and Mann is to be found under Germanic with 1,377 and 1,009 roots respectively. I speculated in Bird (1982:11) that one might assume, therefore, that the figure of 1,377 root morphemes of native origin approaches the total number of root morphemes in the original Indo-European language, and if we assumed the existence of a total number of approximately 1,500 root morphemes in Indo-European, then Pokorny's figure of 2,044 is approximately 544 too large. The question then arose as to which root morphemes, if any, are either of non-Indo-European origin or had been included in the dictionary under two or more distinct entries, when they could in fact have been grouped under a single entry. I suggested that the answer might be found in those entries belonging to sets with very few entries in them. This approach seems to have been largely vindicated by later research, as Mann has frequently included several of Pokorny's entries under a single entry, thereby reducing the overall number of entries to 1,273. But as Mann may not have accounted for all the entries which exist in Pokorny only, we must be hesitant about accepting as final Mann's implied total number of hypothetical root morphemes in Indo-European, and a figure in a range from 1,250 to 1,500 seems now to be a reasonable estimate.

Finally, as was my conclusion in The Distribution of Indo-European Root Morphemes (1982) I can only repeat "the definitive dictionary on the subject has yet to be produced," (although S.E. Mann's work has taken us a huge step forward) "and in view of the area of ignorance in the field which still exists, one can but hope that, when finally concluded, it will, unlike Pokorny's work, contain:

1. no variations in the starred headforms,
2. no doubts as to whether a particular entry constitutes a root morpheme in its own right or whether it should be entered as a subsection of another starred headform.

If this study can be of value, however, to linguists already working in the field, and if it stimulates others into looking more deeply into the question of what constituted the language, life and culture of the ancestors of a very large proportion of the world's population, the author will feel that his efforts have been amply rewarded."

AN EXPLANATION OF THE NOTATION

The forms and the meanings of the roots and non-roots are only approximate, and have no other function but to identify the appropriate element under discussion. For more detailed descriptions reference should be made to the original sources, Pokorny (1959) and Mann (1987).

Capital letters are used throughout for the forms of roots and small letters for non-roots. The value of these letters is as follows:

B, D, G, K, L, M, N, P, R, S, T, Z have their traditional consonantal sounds.
A, E, I, O, U have their traditional short vowel sounds. They may occur simply or in diphthongs. Length is not indicated.
H, Y, W are treated as consonants if initial and followed by a vowel.
H in consonantal clusters indicates asperation, viz. BH, DH, GH, KH, PH.
Y and W are treated as semi-vowels in all positions except the initial position.
KW is used in preference to QU, and appears after P in the alphabetical order in the traditional position of Q.
Y is used in preference to J or I with diacritical subscript, and appears after I in the alphabetical order in the traditional position of J.
' has various functions depending on its environment as follows:

a. to indicate palatalization after B, G, K, P;
b. to indicate an interdental fricative after T, D;
c. to indicate vocalized consonants after L, M, N, R;
d. to stand for the reduced vowel schwa. (It may occur with E ('E) if its function is not clear).

TABLE ONE

The Indo-European Roots and Non-Roots and Their Distribution

The Roots of Indo-European

No	Root	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Set
1	A (exclamation)	P				P			P		P	P				0/5
2	AB water	P	P		P	P	P	M	8	9	P	P				3/9
3	ABEL apple								P	9	10	11	12			4/5
4	ABH powerful	*	M		P	P	P			9	10		12			4/6
5	ABHRO strong. P4.	*			P		P			P	P					0/4
6	1. AD to, by, at	P			4	M			8	9	10		M	M		7/5
7	2. AD to fix. P6.								P	P	P					0/3
8	ADES type of grain. M73.								P		P			P		0/3
9	AD(U) water course		P				P					P				0/3
10	1. AG' to drive	1	2	3	M	5		M	8	9	10	11	12	13		12/10
11	2. AG' he-goat	1	2	3	M	5		7	P	M	P	11	P			8/9
12	AG'H pregnant animal	1	2	M						P			M			4/3
13	AG'HER day	1	2	?							P					2/3
14	AGH to be depressed	M	M			5			M	9	10	M	M			8/3
15	AGH(LO) unpleasant. P/W14.	*								*	P					0/1
16	AGHL(U) dark cloud			P		P						P				0/3
17	AGES fault, guilt	1				P				M	P	M				3/3
18	AGRO tip	1	2			M			*			P				3/3
19	AGW(E)SI axe					5			8		10	?				3/3
20	AGWH-NO-S lamb					5			8	9	10	?	12			5/5
21	1. AI (exclam). M436.	P	P			P						P				0/4
22	2. AI to close in	1	2			P				*						2/3
23	3. AI to give		2			5	P		8	9	M			P	P	5/7
24	4. AI to burn. P26.					*					P					0/1
25	5. AI utterance					P				P	*					0/2
26	AI(DH) to burn	1	2		P	5		7	8	9	10	11	12	M	M	11/10
27	AYER day(light)		P			5					10					2/3
28	AIG' goat. P/M11.		P	P		P										0/3
29	1. AIG out of humour	M							P	P	10	11	12	P		4/6
30	2. AIG oak					5			*		10					2/2
31	3. AIG to move violently	1				5					10	M	P			4/4
32	AIGWH to be ashamed					5					10		M			3/2
33	A(I)G'H to need	1	2			P					M			P		3/4
34	AIK' spear		P			5			8		M	11	12			5/5
35	AIK to call to. M436.					P						P				0/2
36	AYES metal	1	2						8		10		M			5/4
37	AI-RA type of grass	1				5						11				3/3
38	1. AIS to wish	1	P	3					8	M	10	11	12	M	?	8/7
39	2. AIS to respect	P				P			8	M	10			M		4/4
40	AISK clear, bright						*			?	P	P	12			1/3
41	AI-TRO bitter? P26.											P	P			0/2
42	AYW vital force	1	2			5		P	8	P	10	P	P	P		5/10
43	1. AK' to eat	1	2			P					10			M	M	5/4
44	2. AK' sharp	1	2	3		5	P	7	8	9	10	11	12	13	M	12/12
45	AKKA mummy	P				P			P							0/3

No	Root	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Set
46	AK'RU tear	P	P								P			P		0/4
47	AKW to damage?	P	P			P										0/3
48	AKWA water	*				?	P		8	*	10	M	P	P	P	3/6
49	1. AL beyond	1	2	3		5			8	9	10	M	12	13		10/9
50	2. AL to grow, nourish	1	2		*	5			8	9	10			P		6/7
51	3. AL to wander		M			5			8		M	11	M	P		6/4
52	4. AL to burn	P				*			P	*	P					0/3
53	5. AL to grind	1	2	3		5										4/4
54	ALA hello	1		M		5						11	P			4/4
55	ALBHI barley. M56.		*			P		P								0/2
56	ALBHO white		*	P		5		7	8	9	10	11	12		M	8/8
57	ALDH trough										P	P	P			0/3
58	ALEK to protect	1		3	P	5				M	10	11		P		6/7
59	ALGH frost								P		P					0/2
60	ALGWH to earn, be worth	1	2			5				?	M	11			?	5/4
61	ALP small, weak?	1									M	M				3/1
62	ALU bitter plant? P63.	P				P			P							0/3
63	ALU bitter, beer	1		M		P			8		10	M	M			6/4
64	AMBHI around, both	1	2	3		5	M	7	8	9	10	11	12	13		12/11
65	AM to seize. M456.	P		P					*							0/2
66	AMER day			P		P										0/2
67	AMES blackbird								8	9	10					3/3
68	AM(M)A mummy	M		M				7	8		10			13		6/4
69	1. AN old woman, ancestor		M	P		P	P	M	8	P	10	11	M	?	P	6/8
70	2. AN other(side), there	1	2	M		5		M	8	9	10	11	12	M	M	12/8
71	3. AN to breathe	1	2	3	M	5	P	7	8	9	10	11	12	13		12/12
72	4. AN on	1	2	P		5			8		10	11	12	M	M	9/8
73	ANDH to bloom	1	P	3		5		7	8	9	P	*	M	P		7/9
74	ANDHO blind, dark	1	P							9			M		M	4/3
75	ANET duck. M1678.	P				P			P		P	P	P			0/6
76	ANETA doorpost	1	P	3					8		P	M	M			5/5
77	ANG'H tight	1	2	3		5		M	8	9	10	11	12	M	M	12/9
78	ANG'HEN scent, smell			3		M					10					3/2
79	ANGW(H)I snake	1	2	3		5	P		8	9	10	11	12	M		10/10
80	1. ANK force. P1297.					P				P	*				*	0/2
81	2. ANK to bend. M77.	P	P	P		P			P	P	P	P	P	P		0/10
82	ANO ring			3					8	9						3/3
83	ANS well-inclined	1		3		5		?	8	?	10	M			M	7/5
84	ANSA loop. M456.					P			P	P	P	P				0/5
85	ANSU spirit, demon. P71.	P	P				P		P		P					0/5
86	ANT-S front, forehead	1	M	3		5		M	8	9	10	11	M	13	14	12/9
87	ANTRO-M hollow. M458.			P		P										0/2
88	1. AP to take, reach	1	2	P		5			8		M		M	P	14	7/7
89	2. AP water. P2.	P	P		P	P	P					P				0/6
90	3. AP fragile, harm	P	P			P						P				0/4
91	APPA daddy. P/M1359.					P								P		0/2
92	APELO strength					P	P			P	P					0/4
93	APERO shore					5					10					2/2

No	Root	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Set
94	APO off, away	1	2	3	4	5		7	8	M	10	11	12	M	?	12/10
95	APSA aspen									M	10	11	12			4/3
96	1. AR to fit, suit	1	2	3	?	5		M	8	9	10	11	12	13	M	12/10
97	2. AR to strive for, reach	M	P	3		P				M	?					3/3
98	3. AR nut					P		P				11	12			2/4
99	4. AR now, therefore	M	M	?		5			M	M	M	11	M	P	M	9/3
100	5. AR to renounce			*		P		7			M	M	M			4/2
101	AR(E) to plough			3		5		M	8	9	10	11	12	13	?	9/8
102	ARDH point. M494.			P								P				0/2
103	ARDI tip, sting. M494.	P				P				P	P					0/4
104	AREG to shut away. P58.	P			P	P					P					0/4
105	ARG' to shine	1	2	3	P	5	*		8	9	M	*	?	13	M	9/8
106	AREK to hold, guard			3		P			8	P	P	P	M	M	P	4/7
107	ARENKO type of grain? P101.					P			*	P						0/2
108	ARYO lord, ruler	1	2	M		M				P	*	M				5/3
109	ARKU bow and arrow	?				P			8		10	P	12			3/5
110	AROD water bird					P			8		10		12			3/4
111	ARO-M reed? M636.					P			P							0/2
112	ARWA intestines?					P			P							0/2
113	AS to burn	1		3		5		M	8	9	10		12	13	14	10/9
114	AT to go	P	M						P		M					2/2
115	ATER fire		2	3				*	M	*			*			3/2
116	1. ATI name of fish?					P			P	*		P				0/3
117	2. AT(I) beyond	1	2	M	M	5	P	7	8	9	10	11	12	M		12/10
118	ATTO father. M1832.	P	P			P		P	P		P		P		P	0/8
119	1. AU exclamation of pain	1		M		M		M	P		10	11	12			7/5
120	2. AU to dwell. P/M498.			P		P					P					0/3
121	3. AU off, away	1	2	M		5	P	*	8	9	10	11	12		14	10/10
122	4. AU that	1	2	M		5		7	8	9	10	11	12	13	M	12/10
123	5. AW to weave	P		3	?	?	P			9	10	11	12		M	6/7
124	6. AW to speak	1	2	M		5			8	9	10	11	12	13		10/9
125	7. AW to like	1	2	P		5			8	9	10	P	M	P	?	7/9
126	8. AW to perceive	1	2	M		5			8	M	M	M	12	P	14	10/7
127	9. AW to sprinkle	1	2	3	P	5		7	8	9	10	11	12	13	14	12/13
128	10. AW(E) to blow. M498.	P	P			P			P	P	P	P	P	P	P	0/10
129	11. AWE to strain	P				P				P				P		0/4
130	AWEG to increase	1	2			5		M	8	9	10	11	M	13	M	11/8
131	AWI bird	1	2	P		5		P	8	9			M			6/7
132	AWS to shine	1	P	M		5			P	P	10	11	P	*		5/8
133	AWG to shine					5		7		M	M		*			4/2
134	AUGH nape of the neck	P		3		5							?			2/3
135	AWIG' type of grass, oats								8			11	12			3/3
136	AUKW(H) cooking pot	P				5		P	P	P	10					2/6
137	AULO hole			3		5			8		10	11	12	M		7/6
138	AWO kinsman			*		*			8	9	10	11	12		M	6/5
139	AUS to draw water					P			8		10					2/3
140	BAB/PAP teat, to swell	1						M	8		10	11				5/4
141	BABA babbling	1	M	M	M	5		7	8	9	10	11	12			11/8

No	Root	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Set
142	BADYOS yellow, brown								P	P						0/2
143	BAITA goatskin				P		*									0/1
144	BAK staff as support			?		5			8	M	10	P	?			4/4
145	BAL to whirl	P				P										0/2
146	1. BAMB dull rumbling sound	M	M	M		5		7			10	11	12			8/5
147	2. BAMB to swell. M1359.	P				P			P		P	P	P			0/6
148	BAND drop (liquid)	1					P	M		9	M					4/3
149	BATA meaningless stuttering	P				P				P						0/3
150	BAU bow-wow	?		M		P		M	8	?	M	11	12			6/4
151	BDEL to suck					P					P					0/2
152	BE baa (of sheep)	*				P			P	P	P	P	P			0/6
153	BED to swell?	P		P					*	*	*		P			0/3
154	1. BEL to cut out? M197.			P						P						0/2
155	2. BEL strong	1			M	5			8	M	*		12			6/4
156	BEND protruding point									P	P					0/2
157	1. BEU muffled sound	P	2	3	M	5		M	8	M	10	11	12		?	10/8
158	2. BEU to swell	P	2	3		5		7	8	9	10	11	12			9/10
159	BIS(T)LI gall? M193.								P	P						0/2
160	BLAT to prattle								8		10		M			3/2
161	BLE to bleat. P242.					P		P			P		P			0/4
162	BLOU flea	1	P	3		P		P	P		P	11	12			4/9
163	BOL nod, bulb	P		P		P										0/3
164	BRANGH hoarse?					P				P						0/2
165	BREUK to jump					5		M					12			3/2
166	BRONK to shut in. M212.										P	P				0/2
167	BU lip, kiss		P			M		7		P	10	P	12			4/6
168	1. BHA to shine, speak	1	2	3		5		7		9	10	M	12	13		10/9
169	2. BHA to speak. M168.	P	*	P		P			P		P		P	P		0/7
170	BHABHA broad bean		M			5		7	8		P	11	12			6/6
171	BHAD good	1	2			M				M	10		?			5/3
172	1. BHAG to share out	1	2		4	5			M	M	?	M	12	13		9/6
173	2. BHAG sharp. M1026/266.			P		P										0/2
174	BHAGOS-S beech tree		*			5			8	9	10		*			4/4
175	BHAGU-S arm	1	2	M		P					10			13		5/5
176	BHAR projection, point	1	M	M	M	M		7	8	9	10	11	12		M	12/7
177	BHARDHA beard. P/M176.								P		P	P	P			0/4
178	BH(A)REKW to cram together					P			P	P				P		0/4
179	BHARES barley. P/M176.								P		P		P			0/3
180	BHASKO band, bundle			M	4	M		M	8	9	M		M			8/3
181	BHASO bird of prey. P168.	P				P										0/2
182	BHAT to strike					M			8	9	10		12			5/4
183	BHAU to strike							P	8	9	10	M	M			5/4
184	1. B(H)E beside, outside	1	M	M		M				M	M	11	12	M		9/3
185	2. B(H)E emphatic particle	M	2	3		M				M	10	11	12			8/5
186	BHE warm					5	P				10		?			2/3
187	1. BHEDH to dig	M	M		M	M		M	8	9	10	11	12	P	M	11/6
188	2. BHEDH to bend. W721.	P						P			P	P		P		0/5
189	BHEG to break	1	M	3	*				M	9	10	11	P			7/6

No	Root	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Set
190	BHEGH to dispute		?							9	10	11	P	*		3/4
191	BHEGW to run away	1				5						11	12	13		5/5
192	BHEI bee	M		M				M	8	9	10	11	12			8/5
193	BHEID to split	1	?	M		P		M	8	9	10	M	M			8/5
194	BHEIDH to persuade		M		M	5		7	8	M	10	M	12			9/5
195	BHEI(E) to strike		P	P		5	P		P	9	10		12			4/8
196	BHEIGW to shine		P			P										0/2
197	1. BHEL to shine, white	1	M	3	M	5	P	7	8	9	10	11	12	13		12/11
198	2. BHEL henbane						*			9	10		12			3/3
199	3. BHEL to blow, swell	1	2	3	4	5		M	8	9	10	11	12	M	M	13/10
200	4. BHEL to thrive, bloom					5			P	9	10			P		3/5
201	5. BHEL plant, beam	P				P			P	P	10	11	12			3/7
202	6. BHEL to cry out	1		M					M	M	10	11	M	P		7/4
203	BH(E)LAG slack, silly?								P				P			0/2
204	BHELD to knock, strike								M	M	10	11				4/2
205	BHELEG to glisten. P197.	P				P			P	P	P	P	P	P		0/8
206	BHELEU to harm	M								P	10	P	12	M		4/4
207	BHELG'H to swell. P199.	P	P							P	P	P	P			0/6
208	BHEN to hit, wound. W636.		P							P	P					O/3
209	BHEND to sing, rejoice	P								P						0/2
210	BHEND to bind	1	2		P	5		P	8	9	10	11		M		8/9
211	BHENG'H thick, fat	1	2	M		5		M	M		10	11		P	P	8/7
212	1. BHER to carry	1	2	3	4	5	6	7	8	9	10	11	12	13	*	13/13
213	2. BHER to well up. P227.	P	P		P	P	P	P	P	P	P					0/9
214	3. BHER to cut, pierce	1	P	3	P	5		7	8	9	10	11	12		M	10/11
215	4. BHER to hum, buzz	1	M	3		5			M	M	M	11	12			9/5
216	5. BHER bright brown	1	2	M		5	M		8	9	10	11	12	P		10/9
217	6. BHER to cook	1	2			5	*		8		M	P				5/5
218	7. BHER to plait, weave					P						P				0/2
219	BHERDH to cut; board	P	M			*			M		10		M			4/2
220	BHEREG to buzz, growl					5			8		10	11	12			5/5
221	BHEREG' to shine; bright, white	1	2		P	P		7	8	M	10	11	12		P	8/10
222	BHEREG'H high, noble	1	2	3	4	M	P	M	8	9	10		12	13	14	12/11
223	BHEREK' to shine. W221.	P				P				*	P				P	0/4
224	1. BHEREM to project. M634.								*		P					0/1
225	2. BHEREM to growl	1				P		M	8	9	10	P	12			6/7
226	BHERS quick					M	*		P	9	M	11	12			5/4
227	BHREU to boil, bubble	1	2	3	P	5	P	7	8	9	10	11	12			10/12
228	BHERG'H to hide	M	M								10	P	12			4/3
229	BHEREG throat. M286.			P		P			P		P	P				0/5
230	1. BHES to rub	P				5		7	8	M	10	M	M	P		7/6
231	2. BHES to breathe. P/M1403.	P				P										0/2
232	BHEU to be, exist	1	2	3	P	5	6	7	8	9	10	11	12	*	?	11/12
233	BHEUDH to be aware	1	2		M	5				9	10	11	12	13		9/8
234	1. BHEUG to flee. M236.					P	*		P			P				0/3
235	2. BHEUG to put away	P	P	M			P				P					1/4
236	3. BHEUG to bend	1	M	M		5	?	M	8	9	10	11				9/6

No	Root	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Set
237	4. BHEUG to enjoy	1	M	M				7	8		M					6/3
238	BHIDH pot, vat					P			P		P					0/3
239	BHILI dear, familiar					5				9	10					3/3
240	BHLAG' to hit								8	M	10	11	M			5/3
241	BHLAD wizard	1		*			P		8	?	10					3/4
242	BHLE to howl					M		P	8	M	10	11	12	M		7/5
243	BHLED to bubble up. P/M141.					P				P	P	P				0/4
244	BHLEGW to swell up. W/P199.					P					P					0/2
245	1. BHLEI to glitter. W197.										P	P	P	P		0/4
246	2. BHLEI to blow up. P/W199.					P				*	P	P	P			0/4
247	BHLEIG' to glitter. P197.										P	P	P			0/3
248	BLEIK to glitter. P197.										P		P			0/2
249	BHLEND dim, reddish. P197.	P									P	P	P			0/4
250	BHLES to glitter. P197.										P					0/1
251	1. BHLEU to blow up. W199.				•	P			P		P	P	P			0/5
252	2. BHLEU to glitter. P197.											P	P			0/2
253	3. BHLEU weak, miserable					5					10	11				3/3
254	BHLEU-(K) to burn. W197.					P					P	*	*			0/2
255	BHLE-WO-S light colour. W197.								P	P	P					0/3
256	BHLEUS slack? P206.										P	P				0/2
257	BHEIDO-S light, pale. P197.						P	P			P	P	P			0/5
258	BHLIG' to hit					5			8	9	M	P	P			4/5
259	BHLOK wool, tow, flock								P		P					0/2
260	BHLOS-K (root in) sounds									P		P				0/2
261	BHOG flowing water. P189.									P	P	*				0/2
262	BHOGH mud, swamp. M263.										P		P			0/2
263	BHOI to be afraid	1	2			5			P	M	10	11	12			7/7
264	BHOK to flame, burn?			P					P							0/2
265	BHOLO mist, steam			*						9		11				2/2
266	BHORGWO-S gruff			P						P	P	P				0/4
267	BHOSO-S naked			3		*					10	11	12			4/4
268	BHOUDHI victory									P	P					0/2
269	BHOUKWOS insect. M192.								P		P					0/2
270	BHRAG to smell								8	M	P	M				3/2
271	BHRATER family member, brother	1	2	3	4	5	6		8	9	10	11	12	P		11/12
272	BHRED(H?)/BRADO to wade, seethe				P	M	P	7		M	M	11	12			6/5
273	1. BHREG' to break	1			?	M		M	8	9	10	11	M			8/5
274	2. BHREG' to stand up, stiff	P				?				?	P					0/2
275	BHREI to cut. P214.	P	P		P				P	P	P	P	P			0/8
276	BHREN to bulge						?	M	P	P	P	11	12			3/5
277	BHRENDH to swell up									9	M	11	P	P		3/4
278	BHRENK to bring. P212.									P	P			P		0/3

No	Root	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Set
279	BHRE(N)K' trapped? M273.	P								P						0/2
280	BHREN-TO-S deer						P	*			P	P				0/3
281	BHRES to burst							M		9	10	P				3/3
282	BHREU to sprout	?	M	M		?			P	9	10		?		?	4/3
283	1. BHREU to cut. P/W214.	P								*	P	P	P			0/4
284	2. BHREU edge									9	10	11				3/3
285	BHREU-K' to stroke. P214.						*			*		P	P			0/2
286	1. BHREU(K)-S to swell		M	3		5			8	9	10	P	12			7/7
287	2. BHREU-S to smash. P214.							P	P	P	P					O/4
288	3. BHREU-S to bluster										10	11	12			3/3
289	BHROISKO bitter. P214.												P			0/1
290	1. BHRU eyebrow	1	2		P	5		M	?	9	10	11	12	13		9/9
291	2. BHRU beam. W290.									P	P		P			0/3
292	BHRUG fruit; to enjoy					M			8	M	10					4/2
293	BHRUGH-NO twig									9	10					2/2
294	BHUDH bottom, base	1	2	3	P	5	M	M	8	9	10		M			10/8
295	BHUG'O male animal, stag, ram	1	2	3						9	10	M				6/5
296	1. DA fluid, to flow	P	P	P		P		P		P					*	0/6
297	2. DA(E) to divide	1	2	3		5	P	M	8	9	10	M	12	P	P	10/11
298	DAIWER husband's brother. M297.	P		P		P			P		P	P	P			0/7
299	DAK'RU tear			M		5			P	9	10					4/4
300	DAU to burn	1		P		5		P		9	P	*				3/6
301	DEG'H-MO slanting. P340.	P		P												0/2
302	1. DE (demonstrative stem)	1	2	M		5		M	8	9	10	11	12	M	14	12/9
303	2. DE to bind	1	P	?		5		7		M	M					5/4
304	DEG to pack? M345 + 10.										P			P		0/2
305	DEI to shine	1	2	3	P	5		7	8	9	10	11	12	P	M	11/12
306	DEYE to swing, spin	1	M	M		5				9	M	11	?			7/4
307	DEIG'H insect			3		M				P	10		M			4/3
308	DEIK' to show. M297 + 548.	P	P			P			P		P				*	0/5
309	1. DEK' to take	1	2	*		5		7	8	9	M	11	M	13		10/8
310	2. DEK' to shred. M/P379.	P								P	P	*				0/3
311	DEK'M ten	1	2	3		5		7	8	9	10	11	12	13		11/11
312	1. DEL to (re)count. M314.			*		P					P					0/2
313	2. DEL to totter, shake	P									P	P				0/3
314	3. DEL to split	1		3		5		7	P	9	10	11	12	P		8/10
315	4. DEL to drip			P						P	P					0/3
316	5. DEL long. M302 + 1067.	P	P			P			P	P	P	P	P		P	0/9
317	DEM to build; tame	1	2	3		5			8	9	10	11	12	P	14	10/11
318	DEME to tame. M317.	P	P			P		P	P	P	P				P	0/8
319	DEMEL worm?					P		*								0/1
320	DENK' to bite. M379.	P	P			P		P			P					0/5
321	1. DENS mental power. M303.	P	P			P										0/3
322	2. DENS dense					5		M	8						P	3/3
323	DEPH to stamp			3		5					M	M	12	M		6/3
324	1. DER span (hand). P327.					P		P		*	P	*				0/3

No	Root	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Set
325	2. DER to grumble	P	M	M		5				9	M	11	12	P		7/6
326	3. DER to run	1	2	P	P	5	P	M		9	10	11	12			8/10
327	4. DER to split	1	2	3	?	5	P	7	M	9	10	11	12	13	?	11/11
328	DERBH to wind, compress	1	2	P		5					10		12			5/6
329	DER(EP) to see? P332.	P				P										0/2
330	DERE to work	M	M	?		5		?			M	P	M			5/2
331	DERGH to grasp. M382.			P		5				9	10	M	M			5/4
332	DERK' to see	1	2	M		5		7	M	9	10		M			9/6
333	DERU to be firm; tree	1	2	3	P	5		7	M	9	10	11	12	P	14	11/12
334	DES to find	M				5		P				M	P			3/3
335	1. DEU to sink in	P	P			5					M		M			3/3
336	2. DEU to venerate	P	M			*			P		10					2/3
337	3. DEU to advance	1	2	3		5		M	8	9	10	M	12		14	11/9
338	DEUK to pull					5		7	8	9	10	M			?	6/5
339	DEUP dull thud (noise)					5						P	12	P		2/4
340	DEG'H-MO-S slanting	P		P		P										0/3
341	DIGH she-goat			3	4	5					10					4/4
342	DIP-RO sacrificial animal			P							P					0/2
343	DL'KU sweet					5		M	8							3/2
344	DN'G'HU tongue	P	P	P					8	P	10	P	P	13		3/9
345	DO to give	1	2	3		5	6	P	8	M	M	11	12		14	11/10
346	DOUS arm	P	P							P		P	P			0/5
347	DREM to sleep	P		P		5			8			M	12			4/5
348	DREG'H unwilling, vexed	M								M	10	11				4/2
349	DUMB penis	M	2	M				M			10	M				6/2
350	DUS evil, bad, mis-. M337.	P	P	P		P			P	P	P		P			0/8
351	DWEI to fear	1	2	3		5			8	M	M					7/5
352	DWO(U) two	1	2	3	*	5		7	8	9	10	11	12	13	M	12/11
353	1. DHABH to be astonished	M				P					10	*	*			2/2
354	2. DHABH fitting, able	M	M	P				M	8		10	11	12	13	M	9/6
355	DHAL to bloom	M		3		5		7		9	10		?			6/5
356	DHANU type of tree	P									P					0/2
357	DHAU to strangle		P		4	5	P				P		P			2/6
358	1. DHE(DHE) older family member	M		M		5	P				*	11	12			5/4
359	2. DHE to set	1	2	3	4	5	P	M	8	9	10	11	12	13	14	13/13
360	3. DHE to vanish			M					8	P	P	M				3/3
361	DHEB dense, firm. M354.										P	P	P	P		0/4
362	DHEBH to injure	1	2	P		P			M		M	M			P	5/5
363	DHEGWH to burn	1	2			5		7	8	9	M	11	12	13	M	11/9
364	DHE(I) to suck	1	2	3		5	P	7	8	9	10	11	12			10/11
365	DHEYE to see, look	1	2	M		5		7			M	M	M		M	9/4
366	DHEIGW to stab. M367.								P		P	P				0/3
367	DHEIG'H to form, build	1	2	3	P	5			8	9	10	11	12	13		10/11
368	1. DHEL hollow	M	M			5		M		9	10	M	12			8/4
369	2. DHEL to light. P355.			*						P	P					0/2
370	3. DHEL to tremble			P							P					0/2
371	DHELBH to dig. M314.										P	P	P			0/3

No	Root	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Set
372	DHELG to stab; needle					?	*		*	9	10	11				3/3
373	DHELGH to hit?					*					P			*		0/1
374	DHEM to fly about. M396.	P	P			P				P	P	P	P			0/7
375	DHEMBH to bury. P362.			P		P						*				0/2
376	1. DHEN to run, flow. M393.	P	P				P		P					P		0/5
377	2. DHEN palm (hand)	P				P			P		P	*				0/4
378	3. DHEN to hit, thrust	M		M		M		7		M	10	M	M			8/2
379	1. DHENGH to press	1	2	M		5		7		9	10	11	12		?	9/8
380	2. DHENGH to reach. M379.	P				P				P			P			0/4
381	1. DHER dirt	1	2			5		7	P	9	10	11	12	13		9/10
382	2. DHER to hold	1	2	3	P	5		M	8	9	10	11	12		*	10/10
383	3. DHER to drone	P		3		5				P	10	11	12	*		5/7
384	4. DHER to jump. P381.	P				P				P						0/3
385	5. DHER dirt. P381.					P			P		P	P	P			0/5
386	DHERAGH to draw	M				M		M	P	M	10	M	12			7/3
387	DHERBH to work		M	3						M	10	11				5/3
388	DHEREBH to grow. P326.	P				P					P					0/3
389	DHEREGH type of thorny bush	1				*				P	*	P	12			2/4
390	DHEREG'H to turn		P	P				P						*	*	0/3
391	DHERS to venture	1	2	M		5			P	M	10	P	M	M		8/6
392	DHES religious concepts. M396.	P		P					P							0/3
393	1. DHEU to flow	1	2		P	5	P	M	M	M	P		*	M	?	7/6
394	2. DHEU to be exhausted, die			P	M	M			*	9	P	P	M		M	5/4
395	3. DHEU shining bright	1	2	?		5					?					0/3
396	4. DHEU to fly about (like dust)	1	2	3		5		7	8	9	10	11	12	13	M	12/11
397	DHEU-B deep, hollow				4	5	P			9	10	11	12			6/7
398	DHEUBH peg, wedge. M323.					P					P					0/2
399	DHEWES to fly about. P/M396.	P				P		P	P	P	P	P	P			0/8
400	DHEUGH to produce sth. useful	1	2			5	M		M	9	10	11	P		?	8/7
401	DHLAS to squash?	P				P							P			0/3
402	DHL'GH guilt, duty. M316.									P	P		P			0/3
403	1. DHO to sharpen	P	2			P					M	M				3/3
404	2. DHO(U) rope?					P			M				M	*		2/1
405	DHREBH to smash. M326.					*					P		P			0/2
406	DHREG' to pull. P/W386.	P									P	P				0/3
407	1. DHREGH to run			3		5		M		9	M	M	?			6/3
408	2. DHREGH to torment. M381.	P	P								P		P			0/4
409	DHREIBH to drive, push. M326.										P	P				0/2
410	DHREU to crumble			M		P		?		P	10	P	12			3/5
411	1. DHREUGH to tremble					*				M	M	11	12			4/2
412	2. DHREUGH to deceive	1	2							P	10					3/4

No	Root	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Set
413	DHRIGH hair. W. IE?					P				P		*	*			0/2
414	DHRONO brightly coloured?					*	P	*		*						0/1
415	DHUGHETER daughter	1	2	3		5			8	M	10	11	12	13		10/9
416	DHWEN to make a noise	1	M					?		M	10	M				5/2
417	1. DHWER to trick	1							8		?	?	?		14	3/3
418	2. DHWER door	1	2	3		5		7	8	9	10	11	12	13	M	12/11
419	DHWERGH dwarflike?		*	M		M					10	*				3/1
420	1. E near to. P422.	P	P	P		P			P		P	P	P			0/8
421	2. E (exclamation)	P				P			P	P	P	P	P			0/7
422	3. E (pronominal stem) he, the	1	2	3	4	5		7	8	9	10	11	12	M	M	13/11
423	EBHI up to	1	2			M			M		10	*	12		M	7/4
424	ED to eat	1	2	3	*	5	*		8	9	10	11	12		14	10/10
425	1. EDH tip, point	M		M				M	P	9	10	11	12			7/5
426	2. EDH stake fence			M		*			M		10	M	12			5/2
427	EG to lack	M							8		10	M				4/2
428	1. EG' to speak, say	*	*	3		P			8		M			?		3/3
429	2. EG' I	1	2	3		5	6	M	8		10	11	12	P	14	11/11
430	EG'HERO lake			M	P	P	*			M		11	12			4/4
431	EG'HI hedgehog		M	3	4	5					10	11	12			7/6
432	EG'HS out of	M	M	M		5		M	8	9	M	11	12			10/5
433	EGNI fire	1						M	8	M		11	12		*	6/4
434	EHEM (exclamation). P421.	P							P		P					0/3
435	1. EI to go	1	2	3		5		M	8	9	10	11	12	13	14	12/11
436	2. EI (exclamation)	1	2	3		5		7	8	P	10	11	12	M		10/10
437	3. EI reddish	P		P		5			8	9	10	11	12			6/8
438	4. EI stake, shaft	1	M			5					10	11	12		?	6/5
439	EIBH to copulate	1				5	P			M	*		12	M		5/4
440	EIG to lament					P				P	P					0/3
441	EIK to possess	P	P								P			*		0/3
442	1. EIS passion	1	2	?		5	P	M	8	9	10	11	P	M		9/9
443	2. EI-S ice, frost		2							?	10	11	12			4/4
444	EK'WO-S horse	1	2	M	P	5	6		8	9	10	11		13	M	11/10
445	1. EL red, brown	1	P	3	P	5	*		8	9	10	11	12	M		9/10
446	2. EL to be mouldy	P	M	P					8		10	11	M			5/5
447	3. EL miserable			3		5					10	11				4/4
448	4. EL to destroy. M1980.			P		P			*	*						0/2
449	5. EL to go	M		3		5			M	9	M					6/3
450	6. EL hungry; bad?	1		?		5			8	9	*	11	12			6/6
451	7. EL to bend	P	2	3		5		7	8	9	10	11	12	P	M	10/11
452	8. EL strip?	1				*					10					2/2
453	ELA awl	1	?	M							10	M				4/2
454	ELG needy			P							P	P				0/3
455	ELKOS wound. M450.	P				P			P	*						0/3
456	EM to take	1	2	3		5			8	9	10	11	12	M	P	10/10
457	EMBHI gnat, bee?					5			M		10		M			4/2
458	1. EN in	1	2	3	P	5	6	7	8	9	10	11	12	13	M	13/13
459	2. EN year					P					P	P	P			0/4
460	3. EN behold					P			P							0/2

No	Root	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Set
461	1. ENEBH navel	1	2			5			8	9	10	11	M			8/7
462	2. ENEBH/OMBHRO damp; water	1	2	3		5	P		8	9	10	M	12		14	10/10
463	ENEK to reach	1	2	P		5		*	8	P	10	11	12	*	14	8/10
464	ENEU without	1	2			5			M	M	10					6/4
465	E-NEUEN nine	1	2	3	P	5		7	8	9	10	11	12	13		11/12
466	ENGW groin					5			8		10					3/3
467	ENO that. M422.	P	P	P	*	P			P		P	P	P	*	*	0/8
468	EN(O)MN name	1	2	P		5		7	P	9	10	P	12	P	14	8/12
469	EN-ES burden. M83.	P							P							0/2
470	ENK to sigh					5		P	P	P	10	11	P			3/7
471	ENT to twist, weave	1	P			5		7		9	M					5/5
472	EPERO wild boar				*				P		P	P	P			0/4
473	1. EPI near	1	2	3		5	6	7	8	9	10	11	12	*	M	12/11
474	2. EPI companion	1				5						?	?			2/2
475	EPOP hoopoe		P	P		P			P		P	P	*			0/6
476	EPH to cook			3		5										2/2
477	1. ER/OR eagle. M479.			P		P				P	P	P	P		P	0/7
478	2. ER horned animal			P		P			P	P		P	P			0/6
479	3. ER to move	1	2	3	4	5		7	8	9	10	11	12	M	14	13/12
480	4. ER earth		2	M		5			8	9	10	M	12	P	M	9/7
481	ERE to separate. M479.	P				P			*			P	P			0/4
482	EREB to hollow out					*						P				0/1
483	EREBH reddish brown	?		M		5	P	P		P	10	11	12			5/7
484	ERED to flow away	1	P			*	*			*						1/2
485	EREGW(H)O pea, legume	M				5			8	*	10					4/3
486	1. EREK mite, louse	1		3				P	8	M	M	11	M			7/5
487	2. ER(E)K to split. P488.	P										P				0/2
488	1. ERES to stab	1	2	M						M	M	11	12		M	8/4
489	2. ERES to flow, wet	1	2	3		5	M	7	8	M	10	11	12	13	14	13/11
490	1. EREU to seek. M1493.					P					P					0/2
491	2. EREU to rip up	P									P					0/2
492	1. ERE to row	1				5			8	9	10	11				6/6
493	2. ERE to rest		2			5				P	10	M	M			5/4
494	ERED high	1	2	3		5		P	8	9	10	M	12	13		10/10
495	ERGH to mount	1	2	3		5		P		9	10	11	M			8/8
496	ERKW to radiate	1		3						P	M		M	13	P	5/5
497	ERS buttocks	M		3		5					10				14	5/4
498	ES to be	1	2	3		5	6	7	8	9	10	11	12	13	14	13/13
499	ESU-S good, able. W498.					P			*	*					P	0/2
500	ES to sit. M498.	P	P												P	0/3
501	ESPEN summer, harvest. M113.									P	P		P			0/3
502	ES-R'(GW) blood	1	M	3		5			8			11		13	14	8/7
503	ET(E)N kernel, corn					P				P						0/2
504	ETER intestine. M458.		*			P				P	P					0/3
505	1. ETI above. P422.	P	P		P	P	*		P	P	P	P		*		0/8
506	2. ETI eiderduck. P1678.										P					0/1

No	Root	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Set
507	ET-MEN breath. M504.	P								*	P					0/2
508	ETRO quick, violent								M	M	10	11		*		4/2
509	1. EU to lacking, empty	1	2	3		5		M	8	9	10	P	M			9/8
510	2. EU to dress	1	2	3		5		7	8	9	10	11	12	13	14	12/12
511	3. EU to feel	P	P									11				1/3
512	4. EU cry of joy					5			P			M	M			3/2
513	EUDH udder	1	M			5			8		10	11	P			6/6
514	EUK to become accustomed	1	P	P		5		*		P	10	11	12			5/8
515	EUS to burn	1	M			5		P	8		10	11	M			7/6
516	EWEGWH to speak solemnly	1	2	P		5			8		M		M		M	7/5
517	G'AB to look out for?										P		P			0/2
518	GAG/KAK object, disk								*		P	P				0/2
519	1. GAL bald, naked								M	M	10	11	12			5/3
520	2. GAL to call	1	2	M		5		M	*	9	10	11	12	?		9/7
521	3. GAL to be able	?				M			M	9	M	11	12			6/3
522	GAN(DH) vessel									P	P					0/2
523	GANG to mock, scorn	1				5			M	*	10	M	12			6/4
524	G'AR to call	1	2	3		5		7	8	9	10	11	12			10/10
525	GAREG' dreadful			3		5				9	M	11	12			6/5
526	GAU to rejoice	?	M			5			8	9	M	11	M	13		8/5
527	G'EBH branch		M							M	10	11	M			5/2
528	G'EGH branch		M	M							10	11				4/2
529	1. GEI to turn	1	M	M					8	M	10	11	*			7/4
530	2. GEI to sing	1	P	M					M		M	11	12	P		6/5
531	G'EI to sprout			3	M					M	10	11				5/3
532	GEID to tickle			3		M		M	M	M	10	M	M			8/2
533	G'EID to suck					P		M				11				2/2
534	GEIG' to stab, bite		2	3				M		P	M	11	M			6/4
535	G'EIS gravel(stone)		M		*						10	P	M			3/2
536	1. GEL to form into a ball	1	2	?		5		7	8	9	10	11	12			9/9
537	2. GEL/GWEL to swallow	M	M	M		5		M	8	9	10	M	12			10/5
538	3. GEL cold; to freeze	1	2			5			8		10	M	12			7/6
539	G'EL bright			3		5		?	M	M	10	*	*			5/3
540	GELEBH to scrape					5				9	M		12			4/3
541	GELI mouse	1				5			8							3/3
542	G'(E)LOW sister-in-law M547+1061			*	*	P			P				P			0/3
543	GEM to grasp. M546.			P		P			P	P	P	P	P			0/7
544	G'EMBH tooth, nail	1	2	M		5		7	M		10	11	12	13		10/8
545	G'EM to marry	P	P			P			P							0/4
546	GEN to compress into ball		M	3	M	5		M	8	9	10	11	12	M		11/7
547	1. G'EN(E) to give birth to	1	2	3	P	5	6	7	8	9	10	11	12	M		12/12
548	2. G'EN to recognise	1	2	3		5		7	8	9	10	11	12	13	*	11/11
549	GENEBH plug, pin. M. Non-I.E.										P					0/1
550	GENG lump	M	M	M		5		M	8		10	11	12			9/5
551	GENGH to turn					M					10		12			3/2
552	G'ENU knee. M553.	P	P	P		P	P		P		P			P	P	0/9

No	Root	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Set
553	G'EN jawbone, chin	1	2	3	4	5	P		8	9	10	11	P	13	14	11/13
554	G'EP(H) jaw, mouth		2	?		M				9	10	11	12			6/5
555	1. GER to gather	1		M		5		M	8	9	10	11	12	M		10/7
556	2. GER(E) to cry	1	P	3		5		7	8	9	10	11	12			9/10
557	3. GER curved, crooked	1		?		5		M	8	9	10	11	12			8/7
558	4. GER to grow, awaken	1	2			5		P			10		?			4/5
559	G'ER(E) to grow old	1	2	3		5		M	8	9	10	11	12		M	11/9
560	GEREBH to scratch				P	5	P	P	P	M	10	11	12			5/8
561	G'ERS to turn	M		3		5			M	9	10					6/4
562	1. GEU to bend	1	2	3	P	5		M	8	9	10	11	12		P	10/11
563	G'EU to hasten. M650.	P	P										*			0/2
564	G(E)U-LO glowing coal			P						9	P		M			2/3
565	G'EUS to taste, choose	1	2			5		P	8	9	10					6/7
566	2. GEU to chew. M553.		P	P							P	P	P	P		0/6
567	GLAG milk	M	?		M	5		M	8	M	?					6/2
568	GLEG' soft, tender										10	11	P			2/3
569	G'LEI to attack	P	P													0/2
570	GLEUBH to cut					5			8		10	11			M	5/4
571	GLOGH thorn, point					5			?		*		P			1/2
572	1. GOL to lie, camp			P		P					P	P				0/4
573	2. GOL twig, bough			P									P			0/2
574	GOU to call. M524.	P				P					P	P	P			0/5
575	GOWE hand		P			P						11	12			2/4
576	GRAS to devour	1	M			5		?	8		M		M			6/3
577	GREB(H)O-S white beech. P560.				P		P		P			P	P			0/5
578	GRED to scratch. P560.							P			P					0/2
579	GREM to be damp. M557.								P		P	P	P			0/4
580	1. GREUS to crunch			M		5				9	10	11	12			6/5
581	2. GREUS to burn, smoulder					5			M			P	M			3/2
582	GREUT to compress, push			M		M				9	10	M				5/2
583	GROD hail? P636.			P					P			P	P			0/4
584	GRU to grunt					5			8	M	10					4/3
585	GHA GHA to chatter			M		M		7	M	9	10	11	12			8/5
586	GHABH to give, receive	1				M			8	9	10	11	12			7/6
587	GHABHOLO fork of branch						P			P	P					0/3
588	G'HAGWH young (of animals)		P					P								0/2
589	GHAIDO goat. M11.								P		P					0/2
590	GHAIS to stick								P			P				0/2
591	G'HAISO stick, spear	1	M	M		5			M	9	10	?	M			8/4
592	GHAIT curly or wavy hair		P		P	P				P						0/4
593	G'HAL harm, crime			M		M				9	10	P	*		M	5/3
594	G'HALGH branch, rod			3							10	11				3/3
595	G'HAN to yawn					P					P					0/2
596	G'HANS goose	1	2			5			8	9	10	11	12			8/8
597	G'HASTO rod, staff. M649.								P	P	P					0/3
598	G'HAU(E) to call	1	2	3		5		P	M	9	10	11	12	M		10/9
599	GHAWO false								P	P						0/2

No	Root	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Set
600	G'HD'EM earth, ground	1	2	M	4	5	M	P	8	9	10	11	12	13	14	13/12
601	GHD'YES yesterday	1	2			5		7	8	9	10					7/7
602	GHD'HU fish			3		5						11				3/3
603	GHE (emphatic particle)	1	2	3		5	P	M	8	9	10	11	12	P	P	10/12
604	1. G'HE to release. M679.	P	P			P			P		P					0/5
605	2. G'HE/GHAI to yawn	1	M	M		5		M	8		10	11	12			9/6
606	GHEBH-EL head				P	5				M	10	M	M	13		6/4
607	GHED to defecate; hole	1	2	3	4	5		7		M	P		M			8/7
608	GHEDH to unite. M629.	P									P	*	P	P		0/4
609	GHEGH to crook, bend. M631.			P							P	P				0/3
610	G'(H)EG'H polecat?	P										P				0/2
611	1. G'HEI to propel, prick	1	2	3	M					9	10	11	M			8/6
612	2. G'HEI winter	1	2	3		5	P	P	8	9	10	11	12	M	14	11/12
613	GHEIDH to desire	P				5				9	10	11	12			5/6
614	GHEIG'H to desire	P		M							10	11				3/3
615	GHEIS to be roused. P/M611.	P	P								P		*			0/3
616	GHEL to call	P				5				M	10	P	12			4/5
617	1. G'HEL to shine; yellow	1	2	M	4	5	?	7	8	9	10	11	12			11/10
618	2. G'HEL to cut	1	M	P		P				P	10	P				3/6
619	G'HELA wine	P			P	P										0/3
620	GHELDH to desire. M538.	P	P										P			0/3
621	GHELEG'H a metal					*						P	P			0/2
622	GHELED hail. M538.		P			P							P			0/3
623	GHELG'H gland		?	3		?				M	M	11	12			5/3
624	GHEL-OND intestines, stomach					5							12			2/2
625	GHELU tortoise			M		5							12			3/2
626	GHELDH to pay					M				M	10		12			4/2
627	GHELUNA jaw			P		P					P					0/3
628	GHEN to gnaw		P	P		5		P	M	9	10	11	12			6/8
629	GHE(N)D to seize, take	P	M	?		5		7	8	9	10	M	12	P		8/8
630	GHENDH abscess, boil	1	2	?		5					10	11	M			6/5
631	G'HENGH to go, walk	1	2	3		5				*	10	11	M	M		8/6
632	1. GHER to call out. M556.	P							P		P		P			0/4
633	2. GHER to rub. M636.	P				P			P			P	P			0/5
634	3. GHER to jut out	1				5		7		9	10		12	13		7/7
635	1. G'HER to like, want	1	2			5			8	P	10					5/6
636	2. G'HER to scratch	M	2	3		5	M	7	8	9	10	11	12			11/9
637	3. G'HER to shine. M636.								*	P	P	P	P			0/4
638	4. G'HER to grasp, enclose	1	P	M	4	5		7	8	9	10	11	12	13	14	12/12
639	5. G'HERE gut, entrails	1	?	M		5			8	M	10	11	M			8/5
640	6. G'HER short, small	1	P	M		5				9			M	M		6/4
641	G'HERDH to embrace. W638.	P	P		P	P		P			P	P	P	P	P	0/10
642	1. GHERS revulsion	1	2	3	*	5		7	8	9	10	11	M	M		11/9
643	2. GHERS weeds										P	P				0/2
644	G'HERS to stare. M642.	P	P	P		P		P	P	P	P					0/8
645	GHERTO milk, butter	P	P							P						0/3

No	Root	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Set
646	G'HERZD(H) barley. P642.				*	P		P	P		P	*				0/4
647	G'HESLO a thousand	P	P			P			*							0/3
648	G'HESOR hand			P		P			*					P	P	0/4
649	G'HESTO hand	1	2						8	P	P	11		M		5/6
650	1. G'HEU to pour	1	2	3	4	5		M	8	9	10	11	12	M		12/10
651	2. G'HEU to disappear, die									P	P	P				0/3
652	3. G'HEU to yawn. M605.	*		*		P					P	P				0/3
653	GHEUB(H) to bend		M								10	11	12			4/3
654	GHEUG'H to do sth. secretly	P	P								P	P				0/4
655	GHEWEYA hollow			M		5			8	M		M				5/2
656	G'HLAD to resound. P/M556.	P	P			P				P						0/4
657	GHLEU to be happy. W617.					P					P	P	P			0/4
658	G'HO behind	M		3								P	P			2/3
659	GHOILO-S wild; to rave	M								M	10	11	P			4/3
660	GHOM stall			P							P					0/2
661	GHOS to eat	1	P	M					*			*				2/2
662	GHOS-TI stranger, guest				*	*	M	*	8		10		12			4/3
663	GHOUWE to honour, revere		?	M		M			8	M	10	M	12			7/3
664	GHOU-RO-S frightful	1	M							M	10		P			4/3
665	GHOUS to sound, hear	P	P						*							0/2
666	GHRE to grow							?	*		P		?			0/1
667	1. GHREBH to seize. M668.	P	P								P	P	P			0/5
668	2. GHREBH to dig	1	2	M	M	M		M		M	10	11	12		M	11/5
669	GHREDH to walk	P	P						P	P	P	P	P			0/7
670	GHREI to stroke over. W636.					P					P	P				0/3
671	GHREIB to grip. M668.										P	P				0/2
672	1. GHREM to rub sharply. M636										P	P				0/2
673	2. GHREM angry. M636.		P			P					P	P	P			0/5
674	GHREN to grind. M636.					P		P	P		P	P	P			0/6
675	GHRENDH beam								8		10	11	12			4/4
676	1. GHREU to collapse					5			8			11	P			3/4
677	2. GHREU to rub past. M636.					P			*	P	P	P	P			0/5
678	GHROUD curved body parts									P	P					0/2
679	GWA to come, go	1	2	3	M	5		P	8	M	10	11	M	13		11/9
680	GWADH to sink	1	P			5		M	?	9	M		?			5/4
681	1. GWEBH to dip, sink	*	M		P	5					10					3/3
682	2. GWEB(H) slimy; toad			M					M		10	P	12			4/3
683	GWEDH to thrust. M630.	P	P			P					P	P				0/5
684	1. GWEI to complain										10	M				2/1
685	2. GWEI to compress								P		P					0/2
686	3. GWEY to live	1	2	3	M	5	M	7	8	9	10	11	12	13	M	14/11
687	4. GWEI skin?	P								P						0/2
688	GWEID(H) mud			M		P					10		12			3/3
689	GWEYE heavy, harm	1	2	M		P					10					4/4
690	1. GWEL to pierce. M686.			P		P		P	*	P	P	P	P			0/7
691	2. GWEL to throw. M686.	P	P			P				*	P			P		0/5
692	3. GWEL oak?		M	3		5		M	8			11	12			7/5

No	Root	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Set
693	GWELBH womb	1	2			5			M		10	M	M		M	8/4
694	GWENA woman	1	2	3	M	5	*	P		9	10	11	12	13	M	11/10
695	1. GWERE to swallow	1	2	3		5		7	8	9	10	11	12	M		11/10
696	2. GWERE heavy	1	2	M		5		M	8	9	10	11	12	13		11/9
697	3. GWERE mountain	1	2			5		P		?		11	12	M		6/6
698	4. GWERE to praise. P/M524.	P	P			P		P	P	P	P	P	P			0/9
699	G'WER to shine; hot. M636.	P									P	P				0/3
700	GWERU pale, spit		P			*			8	9	P					2/4
701	1. GWES to extinguish	1	M			5					M	11	12	M		7/4
702	2. GWES branches	P				P		P	P		P		P			0/6
703	1. GWET resin	1				M		M	8	9	10			M		7/4
704	2. GWET to talk	P	P	3					M		10					3/4
705	GWET intestine								8	*	10					2/2
706	GWIYA sinew. M686.	P	P			P						*	*			0/3
707	GWIS-TI-S finger?		M	M						9	10					4/2
708	GWIU resin			P						P			P			0/3
709	GWL'TUR vulture					P			P							0/2
710	GWOR-GW(OR)O dirt			P		P										0/2
711	GWO bovine; to feed	1	2	3		5			8	9	10	11	12	13	M	11/10
712	GWOU dung. M711.	P	P	P	P			P	P	P	P	P	P			0/10
713	GWOZD(H)O nail, penis									P			P			0/2
714	GWREBH offspring					5				P	?		12			2/3
715	GWREIG' to sleep?			M		5				M			12			4/2
716	GWRENDH to swell					5			P			M	12			3/3
717	GWRETSO thick, fat								P	P						0/2
718	GWREUG'H to gnash teeth. M580.					P				P		P	P			0/4
719	GWHD'EIE to perish	1	2			5		M	P	M	M		M		M	8/4
720	GWHDER to run, flow	1	P	P		P			?				M			2/4
721	GWHEDH to ask for, desire	1	2			5		P		9	P	11	12	P		6/9
722	GWHEI bright			M	M	5						11	?			4/2
723	GWHEIE thread, tendon. M686.			P					P	P		P	P			0/5
724	GWHEL to want	?				5			?		10		12			3/3
725	G'HWEL to become bent	1	2			5		M	8	M	M	11	12			9/6
726	G'HWELG to look at					5		M				11				3/2
727	GWHEMB to jump happily	M		M		P					10					3/2
728	G'HWEN to resound. P/M598.			P				P				P	P			0/4
729	1. GWHEN to swell	1	2	P		5		M	M	M	M	11	12			9/6
730	2. GWHEN to strike	1	2	3		5		7	8	9	10	11	12		14	11/11
731	G'HWER wild animal					5			P			11	12			3/4
732	GWHER to heat	1	2	3	4	5	P	7	8	9	10	11	12	M		12/12
733	G'HWOIGW to shine					P						P	P			0/3
734	G'HWOKW to shimmer					5		M	8			11				4/3
735	GWHRE tip, point. M634.	P				P								P		0/3
736	GWHREN to think					P					P					0/2
737	1. HA HA ah!	P				P			P		P					0/4

No	Root	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Set
738	2. HA HA ha ha (laughter)	P				P			P		P		P			0/5
739	IL mud		M			5				M		11	12			5/3
740	ILI groin					P			P	*			*			0/2
741	YA to be aroused	P	2	3		5		M	8	9	10	11	12	M		10/9
742	YAG to worship	1	2			5					M			13		5/4
743	YAGH to hunt, desire	P	P								P					0/3
744	YAM to dig	1	2			5				9	?	M	12			6/5
745	YE to throw			*		P			P					P	P	0/4
746	YEG ice									9	10	M	M		*	4/2
747	YEGWA power	?	M			5			*	M	M	11	M			6/2
748	1. YEK to speak	P				M			8	9	10	11		P		5/6
749	2. YEK to heal?	?				5				9						2/2
750	YEKWER' liver	1	2	*		5			8	M		11	M			7/5
751	YELO unripe									P		P	P			0/3
752	YEM to hold; pair. M456.	P	P			*			P	P	*					0/4
753	YENETER sister-in-law	1		3	4	5			8			11	12			7/7
754	YES to bubble, well up	1	2	M		5		M		P	10			13		7/6
755	YET to let fly	P	P							P				*		0/3
756	1. YEU(E) to mix, move	1	2	P		5		P	8	9	10	11	12	13	14	10/12
757	2. YEU to tie up. M156.	P	P	P		P			P	P	P	P	P	P	P	0/11
758	3. YEU youthful vigour. W42.	P	P						P	P	P	P	P			0/7
759	YEU-DH to heave. P/M756.	P	P			P			P	P		P	P	P		0/8
760	YEUG' to excite, rouse	M	2								10			13		4/3
761	YEU-NI right place. M744.	P	P							P						0/3
762	YEWO grain, barley	1	2			5						11				4/4
763	YEWOS statute, rule. P/M756.	P	P						P	P						0/4
764	YOI-NI reed								P	P	P					0/3
765	YORK deer					5				9						2/2
766	YOS to gird	M	2			5		7				11	12			6/5
767	1. YU/(Y)UOS you	1	2	P		5		7	8	9	10	11	12	13	14	11/12
768	2. YU outcry. M741.					P			P	P	P	P	P			0/6
769	1. KA to like, desire	1	2	M					8	P	10	11	M	P	M	8/7
770	2. KA well!	1	P			P			M	M		P	12			4/5
771	KAD to wrong	P				P										0/2
772	KADH to shelter, cover					?			P	*	10	?	?			1/2
773	1. K'AD to fall	1		P		M			8	P						3/4
774	2. K'AD to sparkle	P				P				*						0/2
775	3. K'AD sorrow, hatred	1	2			5			8	9	10		M	P		7/7
776	KAG'O goat			M		M		M		M	10		12			6/2
777	KAGH to catch, seize	M	M	M		M		M	8	9	10	M	?			9/3
778	KAGHLO pebble					P					P					0/2
779	1. KAI alone	1				5			8	9	10	11	12			7/7
780	2. KAI and?. M779.					P						*	*			0/1
781	3. KAI heat	1	2	M		P		M	P	M	10	11	M	?		8/6
782	KAI-KO one-eyed. P/M779.	P				P			P	P	P	P				0/6
783	KAIK' to scratch, comb	1						M				11	P			3/3
784	KAI-LO whole, well. P/M779.									P	P	P	P			0/4
785	KAIS hair	1							8		M	M		*		4/2

No	Root	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Set
786	KAITO forest								*	P	P					0/2
787	KAIWR'-T cleft, hollow	P				P										0/2
788	KAKKA to defecate	M	M	3	P	5		M	8	9	10	M	12			10/7
789	KAK cracking sound	1	M			M			M	M	?	11	M			7/2
790	1. K'AK to become thin		2								10	11	M			4/3
791	2. K'AK to enable, help	1	2	M				M		9	M	M	M	P		8/4
792	3. K'AK to jump	M	M		P	5			M	9	10	11	M			8/5
793	4. K'AK branch	1	M	3		M		M		9	10	11	12			9/6
794	1. KAL hard	P	M			M		P	8	P	M	M	12			6/5
795	2. KAL beautiful, healthy	1				5		M	M	M	P	M	M			7/3
796	3. KAL/KUR/KWOR to be caught	1	M			M						11	M			5/2
797	KALNI narrow passage. M794.								P				P			0/2
798	KAM-ER to bend	P	2			5			8		10					4/5
799	KAMP to bend	1	*	M		5		M	8	9	10	11	12			9/7
800	KAN to sing					5			8	9	10	M	M	13		7/5
801	KAND to shine	1		M		5		7	8	9						6/5
802	KAN-THO corner. P/M799.					P			P	P			P			0/4
803	1. KAP to grasp	1	2	M		5		7	8	9	10	11	M		M	11/8
804	2. KAP piece of land. M807.					P		P			P					0/3
805	KAPO swamped by water	1	?	M				?			M	11	M			5/2
806	KAPRO he-goat	P				5			8	9	10		M			5/5
807	KAPUT head. M803.	P	P			P			P		P					0/5
808	KAPHO hoof	1	2								P					2/3
809	1. KAR to revile	M	M			5		M	8	9	10	11	12	*	?	9/6
810	2. KAR to praise aloud	1		?		5					10	11	M			5/4
811	3. KAR hard	1	M	M		5	*	M	8	9	10	M	12			10/6
812	4. KAR wax					5			*			11	12			3/3
813	KARS to card	1						M	8	M	10	11	12			7/5
814	K'AS grey	1	2			5			8	9	10		M			7/6
815	K'AS to reprove	1	2	3					?	M	10	M	P	M	M	8/5
816	1. KAT to plait		M						8	9	10	M	12		?	6/4
817	2. KAT offspring								8		P		12			2/3
818	K'AT to struggle. M998.	P		*	*					P	P		P			0/4
819	1. KAU humble					P				M	10	11		M		4/3
820	2. KAU to hit, hew	M	M	M		M			8	M	10	11	12	13		10/5
821	3. KAU to howl	1	M	3		5		M	8	9	10	11	12	M		11/8
822	KAU(E)LA swelling					5			M	M	10	P	12			5/4
823	KAUL stalk, stem	1		M		5			8	9	P	11			M	7/6
824	KAUS to tug	M	M			5					M	M	12			6/2
825	KED to smoke	1				5				M		P	12			4/4
826	KEG hook, tooth	M	2			M				P	10	11	12			6/5
827	KEI to set in motion	1	2	3		5		7	8	M	10	11	12			10/9
828	1. K'EI to lie; bed	1	2	3		5		?	8	9	10	11	12		14	10/10
829	2. K'EI dark brown, grey	1	2	3		5		M	8	9	10	11	12			10/9
830	K'EI/KO to sharpen, whet	1	2	P		5			8	9	10	M	M			8/7
831	K'EI-BH fast, violent. M815.	P									P					0/2
832	KEID to fall. M828.									P	P					0/2

No	Root	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Set
833	K'EI-GH fast. P/M815.	P									P		P			0/3
834	K'EIP to slant, slope	P	P									P				0/3
835	K'EIPO stake	P	M					P	8	M	M		M			5/3
836	KEIS arm, shin?	1									P	11				2/3
837	KEK' weasel?	P										P				0/2
838	KEKU hammer-shaped stick		P									P				0/2
839	K'EKO green fodder	1									10	11				3/3
840	K'EKW to defecate	P	M	M		5		M		M		P				5/3
841	1. KEL to be prominent; hill	M	M	M		5		M	8	9	10	11	12	M		11/6
842	2. KEL to prick	P				P		7		9	10		12			4/6
843	3. KEL to strike, cut	M	M	M		5		M	8	9	10	11	12			10/6
844	4. KEL grey, dark	1	P			5			8	9	10	11	12		M	8/8
845	5. KEL to drive	1		M		5		7	8	M	10	?	M			8/5
846	6. KEL(E) to call	1		M		5		M	8	9	10	11	12		14	10/8
847	7. KEL/KAL cup. M852.	P				P			P		P					0/4
848	8. KEL to deceive					5			P		10					2/3
849	1. K'EL(E) cold, warm	1	2	M					8	9	10	11	12		M	9/7
850	2. K'EL to lean, tilt	P	P	P		P			P	9	10	11	12			4/9
851	3. K'EL thin shaft	1		M		5				P	P	P				3/5
852	4. K'EL to cover, conceal	1	M	M		5		7	8	9	10	11	12	M	M	12/8
853	K'ELB to help										P	P				0/2
854	KELEU to wander					P						P				0/2
855	K(E)LEWO bald	1	2	*					8	M	M	M				6/3
856	KELG to wind around			3						9	10		12			4/4
857	KELP jug, pot		M			5			P	P						2/3
858	1. KEM to compress. M860.			P							P	P	P			0/4
859	2. KEM to hum, croon	1							M	M	10	P	12			5/4
860	1. K'EM pole, stick	1	M	3		5			M	M	10	11	12			9/6
861	2. K'EM hornless. M860.	P				P					P	P	*			0/4
862	3. K'EM to cover, conceal	1								9	10					3/3
863	4. K'EM(E) to become tired	1	M			5			?	9		M				5/3
864	KEME bite?					P					P	P				0/3
865	KEMERO plant name	1				5					10	11	12			5/5
866	K(E)MER animals with shells P798	P				P					P					0/3
867	1. KEN to pinch	1		M		5		M	8	9	10	11	M	P		9/7
868	2. KEN to scratch, skin	1				5		M	8	9	10	11	12			8/7
869	3. KEN fresh, new	1	2	M		5			P	9	10		12	M	M	9/7
870	4. KEN to be active					P			P	P						0/3
871	K'EN empty	M		3		5										3/2
872	K(E)NEKO yellow, golden	P				5		?	P		P	P				1/5
873	1. KENK to gird, bind	1				5			8		M	11	M			6/4
874	2. KENK to hunger or thirst	1				P					P	11				2/4
875	3. KENK heel, bend of knee	1	M	M		M					10	11	M			7/3
876	K'ENK to dangle	P							P		P				P	0/4
877	K'ENS to proclaim	1	2	M				7	8	?	?		12	M		7/5
878	KENT(H)O rag	P		3					P		10					2/4
879	K'ENT to prick, jab		M	M		5		M		9	10	11	M			8/4

No	Root	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Set
880	1. KER bird noises	1	2	3		5		M	8	9	10	11	12	M		11/9
881	2. KER heat, fire	1	M					M		M	10	11	12	*		7/4
882	3. KER cherry. P/M1556.				*	P						P	P			0/3
883	4. KER/KOR to hang					*						P				0/1
884	5. KER dark, dirty	1	2	3		P	P	7	*	9	10	11	12			8/10
885	1. K'ER head, horn	1	2	3		5		7	8	9	10	11	12	M	M	12/10
886	2. K'ER to grow	M	M	3		5		P	8	M	10	11	M			9/6
887	3. K'ER string. M1624.			P		P										0/2
888	4. K'ER to wound, injure	1	2	?		5		P	P	9	10	11	M	P		7/9
889	K'ERBERO chequered	P	M			P				*		11	12			3/4
890	1. KERD to gird									P			P			0/2
891	2. KERD to run, hurry. M903.					P				P	P					0/3
892	K'ERDH row, herd. M885 + 359.	P	P			P				P	P	P	P			0/7
893	KERED heart	1	M	3		5		?	8	9	10	11	12	M	14	11/9
894	KEREM wild garlic, onion					5	*			9	10	11	12			5/5
895	KEREP leather rags, shoes					5			*	9	10	11	12			5/5
896	KERK'to shrivel up	1	2			M		M	8	M	10	11	12			9/6
897	K'ERE to mix, confuse	1	2			5					10					4/4
898	KERM to tire, rest										P	P				0/2
899	KERNO chinbone	*								P		*	P			0/2
900	K'E-RO (colour root)	1	P			P						M				2/3
901	KERS dark, dirty	1				M		M	M	M	10	11	12			8/4
902	1. K'ER(S) bristle	P	M							9	10	11	12			5/5
903	2. K'ERS to run	M	M	M		5	*		8	9	10	M				8/4
904	KERT to turn, twist, entwine	M	M	M		5		7	8	9	10	11	12	*		10/7
905	KES to scratch, fondle, love	1	2	M		5		7	8	9	10	11	12		M	11/9
906	K'ES to cut	1	M	M		5		7	8	9	10	M	12	M		11/7
907	KET living-room, space		P			P			P		P		P			0/5
908	1. KEU to perceive. M1633.	P	P	P		P			P		P	P	P			0/8
909	2. KEU to bend	1	2	M	M	5	M	7	8	9	10	11	12	M	M	14/9
910	1. K'EU to swell	1	2	3		5		P	8	9	10	11	12			9/10
911	2. K'EU to shine	1	2	3		5		M		9		11	12			8/7
912	3. K'EU to totter								P				P			0/2
913	4. K'EU to burn. M781.					P						P				0/2
914	K'EUB thorn			?				M			10	P	M			3/2
915	KEWED to shout	1	P			5		M	M		10	M	12			7/5
916	KEWEP/KWEP to swell, surge	1	M			5		7	8	P	10	11	12			8/8
917	K'EWERO north (wind). M994.								P			P	P			0/3
918	K'EUK to shine; white. P911.	P	P			P										0/3
919	K'EUK' to mix together					5						11	M			3/2
920	KIK jay	1	M	M		5		M	M	M	10	M	M			10/3
921	1. K'IK strap	1		M		5						11				4/3
922	2. K'IK to dribble	1	M				M			M	P	M	M			6/2
923	K'IK'ER pea			3		P		M	8			M	M			53/3
924	K'ION pillar			P		P										0/2

No	Root	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Set
925	K'IPH thin, pliable twig	1	M			P						P				2/3
926	KISTA basket					P				P						0/2
927	KLA to spread out flat. M852.										P	P	P			0/3
928	KLADHRA alder					P					P					0/2
929	KLAU to weep					5		7			M					3/2
930	KLEG to cry, sound					5		M	8	9	10	11	12			7/6
931	K'LEI to lean. P850.	P	P	P		P			P	P	P	P	P			0/9
932	KLEIK' to press (painfully)	1										11	P			2/3
933	KLEM slack	1		?		P			M	9	M	M	M			6/3
934	KLENG to bend								8		10	11	12	13		5/5
935	KLENO maple	M			P	5			M	M	10	11	12			7/5
936	1. KLEP damp?					P				P		11	M			2/3
937	K'LEP to secrete. W852.					P			P	P	P	P				0/5
938	2. KLEP to embrace									M	P	11				2/2
939	KLEU hook	M				5			8	9	10	11	12			7/6
940	1. K'LEU to hear	1	2	3		5	6	?	8	9	10	11	12	13		11/11
941	2. K'LEU to wash, clean					5			8	P	10	11	M			5/5
942	K'LOU-NI buttock, hip	1	M			M			8	9	10	11				7/5
943	KNEIGWH to lean on							M	8	M	10	11				5/3
944	KNEUG to whine, whimper					5						11	M			3/2
945	KNID egg of louse. M628.			P		P		P		P	P					0/5
946	K'O (demonstrative stem) this		M	3	4	5		M	8	9	10	11	12		14	11/9
947	KOB to suit					M				9	10		12	?		4/3
948	KOI creaking noise					P					10	11	P			2/4
949	KOI-LO miserable, naked									P		P				0/2
950	K'OI-NO grass					P						P	P			0/3
951	KOIS to worry?. M. Non-I.E.								P	*	P					0/2
952	KO KO clucking noise	1				5		?	8	M	10	11	P			6/6
953	KOK'SA part of the body	1	2	M					8	9	10					6/5
954	KOLE to spin?					5			8	M						3/2
955	K'OLEM grass, reed					5			8	M	10	11	12	13	M	8/6
956	KOLI glue					P					P	P	P			0/4
957	KOM beside, near	M	2			5	6	7	8	9	10	11	12	13	14	12/11
958	KONEMO shinbone					5				9	P					2/3
959	K'ONK to hang. P/M876.	P							P		P					0/3
960	K'ONK(H)O mussel, shellfish	1				5			*			*	M			3/2
961	K'OP(H)ELO-S type of carp	1	?			5						11				3/3
962	KOPSO blackbird	P				P							P			0/3
963	K'ORKA gravel, grit	1				5			M	M	M	M				6/2
964	K'ORMNO corrosive liquid, wine										P	P				0/2
965	K'ORMO pain		2			M					10	M	12		?	5/3
966	KORO war, army		2			5				9	10	11			?	5/5
967	KOSELO hazel		?	M					8	9	10	11				5/4
968	KOST leg, bone	?					?		P	M			12			2/2
969	K'RAPO/KROPO roof										P		P			0/2
970	KRAU/KRU to hide. M983.					P				P	P	P	P	P		0/6
971	K'REBH to entrust?	P									P					0/2

No	Root	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Set
972	KRED framework					M					10	P	12			3/3
973	KREG to torment. M880.	P									P					0/2
974	KREI to stroke									M	10	P	M			3/2
975	K'REI to shine forth	1	2			5			M		?					4/3
976	1. KREK to weave, beat					5		?	M	M	10	11	M			6/3
977	2. KREK frog or fish spawn										P	P	P			0/3
978	3. KREK to tower, jut out	M				5				9	10	11	12			6/5
979	1. KREP body, form. M1016.	P	P					*	P	P	P					0/5
980	2. KREP strong, firm	M									10	M	12	M		5/2
981	1. KRET to shake	1	2			5			8	9	10	11	M		M	9/7
982	2. KRET to beat. P981.					P					P		*			0/2
983	1. KREU raw flesh	1	2	M		5		M	8	9	10	11	12	M	?	11/8
984	2. KREU to clash, fall. M888.										P	P				0/2
985	3. KREU to thrust, hit			M		5		M	M	M	10	11	12			8/4
986	KREUP scab							M		P	10	11	12			4/4
987	KREUT/KREUDH effort, struggle										10	11	M	P		3/3
988	KROM lattice framework										10	M	12			3/2
989	KR(O)K-SKO/KRAK limb, leg, foot	P						P			M	P	12			2/4
990	K'RUS lower thigh, leg			3					8							2/2
991	KRUT musical instrument									P		P				0/2
992	K'SA to burn? M994.	P		P												0/2
993	KSEIP to throw, toss	1	2	M		5		?	M	9	10	11	12	P		9/8
994	K'SERO dry	1	M	3		5		M	8	9	10	M	12	13		11/8
995	KSEUBH to totter	P	P										P			0/3
996	KSEUD to smash	1	M	M							M		12			5/2
997	1. K'T'EI to settle. M998.	P	P	P		P										0/4
998	2. K'T'EI to attain	1	2	P		5										3/4
999	KU kiss	*				P					P				P	0/3
1000	K'U pointed; stake	1	2	3				M	8	9	M	M	M			9/5
1001	K'UDH foul; filth	M	M	M		5						11				5/2
1002	KUKU cuckoo	P				P			P	P	P	P	P			0/7
1003	K'UP shoulder	1	2					7			P					3/4
1004	KWAK to croak, quack					P			P		P		P			0/4
1005	KWAT to ferment, be sour	1	M					M	8		10	11	12			7/5
1006	1. K'WEI mud, mire	M	M	3		M		?	8	M	10	11				8/4
1007	2. K'WEI to hiss	1	2	3		M		M	8	M	10	11	12	M		11/7
1008	K'WEIT white; to shine	1	2	M		5			M		10	11	12			8/6
1009	K'WEK to gape	1										11	P			2/3
1010	K'WEL muddy?			P								P				0/2
1011	KWELEK bundle	P							P							0/2
1012	1. KWELP to buckle. M843.					P						P				0/2
1013	2. KWELP to arch	*				P			*		P					0/2
1014	K'WEN holy		P								P	P	P			0/4
1015	K'WENDHRO hollow stemmed plant								8	9	10	11				4/4
1016	KWERP to turn	1	2			5			8	9	10	M	M	P		8/7

No	Root	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Set
1017	K'WES to whistle. M1007.	P	P	P					P		P	P				0/6
1018	KWET to shake	M	M	M		*		M	8	9	10	11	M			9/4
1019	KWOI to wish, want. M613.	P				P						P				0/3
1020	K'WON dog	1	2	3	P	5			8	9	10	11	M	13	M	11/10
1021	KWRES copse, tree?	M				5		M	M	9	10		12			7/4
1022	KHA KHA ha ha (laughter)	P		P		5			P		10	P	12			3/7
1023	KWAS-YO plaited work								8			M	12			3/2
1024	KWAS to cough	1						7		9	10	11	12			6/6
1025	KWE (enclitic) and, somehow	1	2	3		5		M	8	9	P	M	12	M	14	11/9
1026	KWED to sharpen	*	M	M		M			8	M	10		?			6/2
1027	1. KWEI to atone; value. M1556.	P	P			P				P			P	P		0/6
1028	2. KWEI to pile up, build	1	P	M		5			M		M	M	12		M	8/4
1029	KWEYE to rest, be quiet	1	2	3		M		M	8	M	10		12	P	P	9/8
1030	KWEK' to appear, see	P	P			P							P			0/4
1031	1. KWEL to revolve	1	2	M		5		7	8	9	10	11	12	13		11/10
1032	2. KWEL far	P				5				P		M				2/3
1033	3. KWEL swarm, crowd	P				P							P			0/3
1034	KWEM to swallow, gulp	P	2	3		*					P		M			3/4
1035	KWENE (particle of generality)	P	P								P					0/3
1036	KWENT(H)/KENT to suffer		M	M		5				9	M	11	M			7/3
1037	1. KWER to make	1	2			P			8	9	*	11	12			6/7
1038	2. KWER dish. M1556.	P								P	P					0/3
1039	KWERU to chew, grind	P				P										0/2
1040	KWETWER four	1	2	3		5	M	M	8	9	10	11	12	13		12/10
1041	KWO (particle of interrogation)	1	2	3		5	M	7	8	9	10	11	12	13	M	13/11
1042	KWREI to buy	1			?	5				9		11	12	P		5/6
1043	KWR'MI worm, maggot	1	2			M		7	M	9	M	11	12			9/6
1044	KWSEP dark?	1	2			5				M		M				5/3
1045	LA to bark, cry	1	2	3		5		7	8	9	10	11	12		M	11/10
1046	LADH/LENDH to be hidden					5			P		10	M	12	P		4/5
1047	LAB to lick. M1063.			P		P		P	P		P		P			0/6
1048	LABH to seize	1	M	M		5					?	11				5/3
1049	LAGH to cut					5			M	9	10					4/3
1050	LAI fat, lard	M				5			8			M	M			5/2
1051	LAIDH to cut, injure					P			P			P				0/3
1052	LAIWO left					5	P		8	M		P	12			4/5
1053	LA(I)P to light, burn	1				5			M	9	10	11	12		P	7/7
1054	LAK to lick			3		?				M		11	12			4/3
1055	LAK' salmon. M1092.										P	P	P	P		0/4
1056	LAKU standing water					5			P	9	10		12			4/5
1057	LAMA puddle, swamp?		M			M	P	M	8		M	11	12			7/4
1058	LAP cow							P			P	P				0/3
1059	LAS to be eager	1				5			8	9	10	P	12			6/7
1060	LAT damp, wet					5			M	9	10	11	M			6/4
1061	LAU to gain, profit, seize	1				5	M	M	8	P	10	M	12		M	9/6

No	Root	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Set
1062	LAUK(O) throat					P						P	P			0/3
1063	LEB to hand loose	1	M	P		5		P	8	M	10	11	12			8/8
1064	1. LEG to drip. M1070.			P						P	P					0/3
1065	2. LEG to worry					P		P								0/2
1066	LEG' to gather, collect					5		7	8	M	P					4/4
1067	LEGH to lie down	M	M			5		7	8	9	10	11	12	13	14	11/9
1068	1. LEG'(H) twig, branch			M				P				11	P			2/3
1069	2. LEG'(H) to crawl. M1067.										P	P	P			0/3
1070	LEG(WH) limp, light (weight)	1	2	3	?	5	P	?	8	9	10	11	12	M		10/10
1071	1. LEI to disappear	M		M		5			M	9	10	11	12	P	M	9/6
1072	2. LEI slime	1	2	M		5		7	8	9	10	11	12	13	14	12/11
1073	3. LEI to flow	1				5		*	8	9	10	11	12			7/7
1074	1. LE(I) to want					5				M	10		M		M	5/2
1075	2. LE(I)/LE to get	1	M	M		5			M	M	10	11	12			9/5
1076	3. LE(I) to let go					5		7	8	M	10	11	12		?	7/6
1077	LEID to play. M1080.					P			P	*						0/2
1078	1. LEIG poor		?	P		P		7		9	M	11	M			5/5
1079	2. LEIG/LIK body, form			M					M	M	10	11	M			6/2
1080	3. LEIG to leap, tremble	1	P			5			M	9	10	11				6/6
1081	4. LEIG to bind							7	8	M	10	P	P		P	4/6
1082	LEIG'H to lick	1	2	3		5		M	8	9	10	11	12			10/9
1083	LEIK to offer for sale								8			11	?			2/2
1084	LEIKW to leave, flow, run	1	2	3		5			8	9	10	11	12	M		10/9
1085	1. LEIP to stick. M1072.	P	P			P		P	P		P	P	P	P	P	0/10
1086	2. LEIP to desire					P						P				0/2
1087	LEIS track, furrow	M	M			M		P	8	M	10	11	12			8/5
1088	1. LEIT evil; to affect					5				9	10	M				4/3
1089	2. LEIT(H) to pass on, die	M	P			5					10	M		13		5/4
1090	LEIZD border. M1087.							P			P					0/2
1091	1. LEK to blame. M1059.									P	P					0/2
1092	2. LEK to leap, fly	1	M	M		5		M	8	9	10	11	12	P		10/8
1093	3. LEK tendril, trap								8		10		M			3/2
1094	4. LEK to tear	M	M	M		5		P	8		?	M	P			6/4
1095	1. LEM to break	M	M			P	P	M	M	9	10	11	12		M	9/6
1096	2. LEM nocturnal spirits					P			P	P		P				0/4
1097	1. LENDH wetness, spring		M							9	10					3/2
1098	2. LENDH loin								8	M	10	M	12			5/3
1099	3. LENDH open land					M				9	10	P	12			4/4
1100	LENG to bend. M1102.	P						P				P	P			0/4
1101	LENGH to scorn?					5				*		11			*	2/2
1102	LENK to bend	P	M			M		P	M	*	10	11	12			6/5
1103	LENTO flexible	1				M		M	8	9	10	11	12	M	M	10/6
1104	1. LEP to lap up, gobble	1	P	M		M		M		9	M	M	12			8/4
1105	2. LEP peel		M			5		7	8	M	10	11	12			8/6
1106	3. LEP rock, stone?					P			P							0/2
1107	4. LEP to be flat		P								10	11	12			3/4
1108	LERD bent, curved			3		5			M	P	10					4/4
1109	LERG smooth, even			3						9	M					3/2

No	Root	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Set
1110	1. LES to collect	M								*	10	11				3/2
1111	2. LES slack. P1075.								*		P	P	P	P		0/4
1112	1. LETO burning, heat, anger									9			12			2/2
1113	2. LETO warm time, summer									P	P		P			0/3
1114	LETRO leather									9	10					2/2
1115	1. LEU dirt					P		7	8	9		P				3/5
1116	2. LEU to loosen	P				5		7	8	9	10	11	12	13	P	8/10
1117	3. LEU to leave behind. M1116.										P	P	P			0/3
1118	4. LEU stone					5		P		9						2/3
1119	5. LEU (onomat). M1070.								P		P					0/2
1120	LEUBH to care	1				5		P	8		10	11	12		M	7/7
1121	LEUD small								M	9	10	11	12			5/4
1122	LEUDH to mount, grow	1	2	M		5	M	7	8	9	10	11	12	M		12/9
1123	1. LEUG to bend			M		5			8	P	10	11				5/5
1124	2. LEUG dark, swamp. M1134.	*				P	P			*			P			0/3
1125	LEUG' to break	1	P	3		5		P	8	9	10	11	M			8/9
1126	1. LEUGH to tell lies										10	P	12			2/3
1127	2. LEUGH oath									P	P					0/2
1128	LEUK light, brightness	1	2	3		5	P	M	8	9	10	11	12	13	14	12/12
1129	LEUP to peel, break off	1	M			5		7	8	9	10	11	12			9/8
1130	LEUT raging?									P			P			0/2
1131	LINO flax					5		M	8	9	M	11	12			7/5
1132	LOG' rod?					P							P			0/2
1133	LORGA stick, club									9	10					2/2
1134	LOU/LEUE wash	M		3		5	6	M	8	9	10	11	12		14	11/9
1135	LUS louse	1								9	10	11	P	*		4/5
1136	1. MA to wave (hand)	1	M	M	M	5		M	M	M	M	11	12	M	M	13/4
1137	2. MA good. M1138.				*				P	P						0/2
1138	3. MA mother	1	2	3	4	5		7	8	9	10	11	12	13	P	12/13
1139	MAD moist, wet	1	2	3		5		7	8	9	10	11	12	13	14	12/12
1140	MAGH to be able	1	2	P		5			M	M	10	11	12	M		9/7
1141	MAGHU young	M	P			M		P	M	9	10	11				6/5
1142	MAG' to knead	1	2	3		5		M	P	9	10	11	12			9/9
1143	MAG'H to fight		P			P										0/2
1144	1. MAI to cut	1				5	M		8	9	10	11	M	M		9/6
1145	2. MAI to soil, defile	1	M			5		M	M	?	10	11	P	M	M	9/5
1146	1. MAK leather	M	M	M						P	10	11	12			6/4
1147	2. MAK wet	M	M	3			P	7	M			11	12			7/5
1148	3. MAK to knead. W1142.								P			P	P			0/3
1149	4. MAK poppy					5					P	M	12			3/3
1150	MAK'O gnat	1	*								M	11	P			3/3
1151	MAK' long, thin		2			5			8	*	10				14	5/5
1152	MAKH-O-S frisky	P				5				M	M	M				4/2
1153	MAND hurdle	1			P	5	P									2/4
1154	MA-NO/MA damp								P	9	M					2/2
1155	MAN man	1	2	M	M		M			M	10	*	12	M		9/4

No	Root	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Set
1156	MARKO horse									P	P					0/2
1157	1. MATH gnawing worms, vermin		M	3	M	M				M	10	M	M	M		9/2
1158	2. MATH kind of tool	1		M					8		10		M			5/3
1159	MATER mother. P1138.	P	P	P	P	P		P	P	P	P	P	P	P		0/12
1160	MAU-RO tired, weak					5					10	?	P			2/3
1161	MAZDO pole	M		M					P	P	10	M	12			5/4
1162	1. ME me	1	2	3		5	6	7	8	9	10	11	12	P	14	12/13
1163	2. ME middle	1	2	3	M	5	P	7	8	9	10	11	12		M	12/11
1164	3. ME (that) not, lest	1	2	3		5		7	M	M				M		8/5
1165	4. ME to cut down		M			5			8	9	10	M	M			7/4
1166	5. ME to measure	1	2	3		5		7	8	9	10	11	12	P		10/11
1167	6. ME big, considerable					5				9	10	P	12	P		4/6
1168	7. ME quality of mind					5			8		10	P	P			3/5
1169	1. MED to measure	1	2	3		5			8	9	10	M	M		M	10/7
1170	2. MED to swell?					P				P						0/2
1171	MEDHI middle. W1163.	P	P	P		P	P		P	P	P	P	P			0/10
1172	MEDHU honey. M1139.	P	P			P				P	P	P	P	P		0/8
1173	MEGH well-disposed	M				P				M	10	11				4/3
1174	MEG' great	1	2	3	M	5		7	8	9	10			13	14	11/10
1175	1. MEI to fix	1	2	3		P			8	9	10	11	12			8/9
1176	2. MEI to change	1	2			5		M	8	9	10	11	12	13		10/9
1177	3. MEI to wander, go. W1176.					*			P	P		P	P			0/4
1178	4. MEI to tie. P/M1175.	P	P			P						P				0/4
1179	5. MEI small	1	M	M	P	5		M	8	9	10	11	12	13	M	12/9
1180	6. MEI high, thin sound	1	M			5			P	M		M	P		M	6/4
1181	7. MEI mild	1	P			5		P	8	9	10	11	12	13	M	9/10
1182	MEIGH to flicker, blink	1	2	3		5		M	8	9	10	11	12	M		11/9
1183	MEIG'H to urinate. M1185.	P	P	P		P			P		P	P	P	P		0/9
1184	MEI-GW to change. W1176.					P			P							0/2
1185	MEIK' to mix	1	2	3		5			8	9	10	11	12	13		10/10
1186	MEI-NO opinion									9	10		12			3/3
1187	MEIS to flicker. M1145.	P									P		P			0/3
1188	1. MEIT(H) abode		2									11				2/2
1189	2. MEI-T(H) to change. W1176.	P	P						P	P	P	P	P			0/7
1190	MEK to bleat	P		P		5			8	M	P	11	12			5/7
1191	1. MEL to grind; soft	1	2	3		5	M	7	8	9	10	11	12	13	14	13/12
1192	2. MEL to miss, deceive	M	P	3		5				9	10	11				6/6
1193	3. MEL to hesitate. M1194.					P			P	P						0/3
1194	4. MEL strong, big					5			8	P	M	11	M		M	6/4
1195	5. MEL limb	1		P		5				9		11		P		4/6
1196	6. MEL darkish colour	1	M			5		P	8	9	10	11	12			8/8
1197	7. MEL wool					5					M	11	M			4/2
1198	8. MEL to come forth	1	P	M		5	6	P	M	9	10	11	12	P		9/10
1199	1. MELDH to pray			3					M	M	10	11	P		14	6/5
1200	2. MELDH lightning	M								9	10	11	12			5/4
1201	MELG' to wipe, stroke; milk	1	2	M		5	M	7	8	9	10	11	12	13		12/10

No	Root	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Set
1202	MELG'H to swell	P	P	P							M	11				2/4
1203	MELIT honey. M1139.		P	P		P		P	P	P	P				P	0/8
1204	1. MELK to stroke. P1201.								P							0/1
1205	2. MELK wet					P					P	P	P			0/4
1206	MELO small animal			3		5			8	9	10		P			5/6
1207	MELST elevation, head. M1198.	P	P			P					P			P		0/5
1208	MELS to taste									9			12			2/2
1209	MEMBH to reproach?					P				P	P					0/3
1210	MEMS flesh, meat	1		3		P		7	8	P	10	11	12	13		8/10
1211	1. MEN to project	P	P			5			8	9	10		M			5/6
1212	2. MEN to tread. M1179.	P			P	P				P		P	P			0/6
1213	3. MEN to think	1	2	3		5		7	8	9	10	11	12	P	P	10/12
1214	4. MEN small, isolated	1	M	P		5		M	M	9	10	P	P	13	14	9/9
1215	5. MEN to remain	1	2	3		5			8	9		M		P	P	7/8
1216	1. MEND to suck(le); breast						6	7	8	9	P					4/5
1217	2. MEND defect	P							P	P						0/3
1218	MENDH to consider. W1213.	P	P			P		P		P	P	P	P			0/8
1219	MENEGH copious, much	P								9	10	*	12			3/4
1220	MENEK to knead. W1142.	P				P		P			P	P	P			0/6
1221	MENG to embellish	1	2	M		5		*	*	9		M		13		7/5
1222	MENI kind of fish? W1214.					P					*		P			0/2
1223	MENOT month. W1166.	P	P	P		P		P	P	P	P	P	P	P		0/11
1224	1. MENTH to swirl	1	P	M		5			8	M	10	11	12			8/7
1225	2. MENTH to chew. W1211.	P				P			P	P	P					0/5
1226	1. MER to tie					P				P	P	P	P			0/5
1227	2. MER to flicker	1	2	3		5	M	7	8	9	10	11	12		14	12/11
1228	3. MER dark colour			*		P						P	P			0/3
1229	4. MER to die	1	2	3		5	M		8	9	10	11	12		14	11/10
1230	5. MER to erase, harm. M1227.	P	P	P		P		*	P	P	P	P	P		P	0/10
1231	6. MER/MERS to trouble	1	M	3				M			10	11		M	M	8/4
1232	MEREDH to bubble up. M1191.					P						P				0/2
1233	MEREG'/MERG' edge, frontier		2						8	P	10					3/4
1234	MERGH to wet, sprinkle					P						11	12			2/3
1235	MERG' to wipe	P		P		P			P							0/4
1236	MERO young woman	1	M			5		P	*	9		P				4/5
1237	MERK' to grasp, seize	1		M		5			*		M		M			5/2
1238	1. MERK to decay	M				M		7	P	P	P	P	12			4/6
1239	2. MERK vexacious. P/M1227.									P		P	P			0/3
1240	ME-R man, hand	M				5		7	8	P	10				P	5/6
1241	1. MEW damp	1	2	3		5		M	8	9	10	11	12			10/9
1242	2. MEW to push away	1	2			5			8	M	10	11	M			8/6
1243	MEUDH to be intent on		2	M		P				M	10	11	12			6/5
1244	1. MEUG to act surreptitiously								P		P					0/2
1245	2. MEUG slimy, slippery	1	2	M		5		M	8	9	10	11	12	M		11/8

No	Root	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Set
1246	MEUK' to scratch, slit	M	M	M		P			P	M	M	M				6/2
1247	1. MEZG to dip. M1185.	P				*			P			P				0/3
1248	2. MEZG to knit	M	M			M			M	M	10	11	M	M		9/2
1249	MIZDHO reward	1	2		?	5				M	10		12		M	7/5
1250	MO to exert oneself					5			P		10	P	12			3/5
1251	MOD to meet			P							P					0/2
1252	MODHRO colour	M								M	10	M	12			5/2
1253	MOIS-S sheep, pelt	1	2							M	10	P	12			5/5
1254	MOK'S soon	1	2						8	9			M			5/4
1255	MOLKO skin bag				*	P					P					0/2
1256	MONO neck	1	2			5	P		8	9	10		12			7/8
1257	MORI expanse of water								8	9	10	11	12			5/5
1258	MORMOR to murmur	1		3		5		M	8	9	10	11	12			9/8
1259	MORMO(RO) dread, horror					P			P							0/2
1260	MORO blackberry			3	M	5				9			M			5/3
1261	MORWI ant	P	2	M		5			P	9	10	M	12			7/7
1262	MO(U)LO name of plant	P				P										0/2
1263	MO(U)-RO stupid	1				P					M	M	M			4/2
1264	MOZG-O marrow	P	P								P	P	P	P		0/6
1265	MOZG'HO-S young bullock			P		5						M				2/2
1266	MRK edible root					5				M	10		M			4/2
1267	MREGH-M(N)O brain					P					P					0/2
1268	MREG'HU short	P	2			5		M	P	M	10	M	M			7/5
1269	1. MU to hum, moo	1		3		5		M	8	M	10	11	12		14	10/8
1270	2. MU gnat		M	3		5		7	8		10	11	12			8/7
1271	MUK heap		M			5			M	P	10	M	M			6/3
1272	MUS mouse	1	2	3		5		7	8		10		12			8/8
1273	MUT cut short. M1144.								P	P						0/2
1274	1. NA to help, use. M83.	P				P										0/2
1275	2. NA to be afraid.									P					P	0/2
1276	NAGWH sober?			P		P										0/2
1277	NAK pelt	M				5				M	P	P				3/3
1278	NANA child's word for female	1	2			5		7	8	9	*		P			6/7
1279	NANT to dare, press					M				9	10	M	M		?	5/2
1280	NAS nose	1	2						8		10	11	12			6/6
1281	1. NAU boat	1	2	P		5			8	9	10	11	M	M		9/8
1282	2. NAU death		M	M					M	9	10	11	12	M	M	9/4
1283	1. NE not, no	1	2	3		5		M	8	9	10	11	12	13	14	12/11
1284	2. NE we, us	1	2	M		5	M	7	8	9	10	11	12		14	12/10
1285	NEBH to burst?	P									P					0/2
1286	1. NED to bind, tie	M	2			P		?	8	9	10	11	12	M		8/7
1287	2. NED to sound, bellow	P	P		P	P	P									0/5
1288	NEDO reed?	P	P	P								P				0/4
1289	NEG'H to bore, stab	*		M						9			P			2/2
1290	1. NEI/NEIE to lead	1	2			?				9	M				14	5/4
1291	2. NEI to be excited	*							8	9	10		M			4/3
1292	1. NEID to abuse	P	P	P		P					P	P				0/6
1293	2. NEID to flow, stream	P								P		P	P			0/4

No	Root	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Set
1294	NEIGW to wash	1				5			8	9	P		M			5/5
1295	1. NEIK to winnow grain					P				P		P				0/3
1296	2. NEIK to rise, excel		M			5			M	M	P	11	12		M	7/4
1297	NEK' death	1	2			5			8	P	10	M		13	M	8/7
1298	NEKW night	1	M			5		7	8	9	10	11	12	13	14	11/10
1299	1. NEM to assign, allot	M	2			5		P	8	P	P	11				5/7
1300	2. NEM to bend	1	2			5			M	9	10	P		M		7/6
1301	NEPOT nephew	1	2			5		7	8	9	10	11	12			9/9
1302	1. NER life-force, man. M71.	P	P	P		P		P	P	P	P	P	P			0/10
1303	2. NER under					P			P		P					0/3
1304	3. NER/NERE to dive, swim		M				*			*		P	12			2/2
1305	NES to return home safely	1	P	?		5				M	10			13	M	6/5
1306	NETR snake								8	9	10					3/3
1307	1. NEU to shout	1							*	9		M	?			3/2
1308	2. NEU to nod. M1550.	P				P			P	P	P	P	P			0/7
1309	NEU-D to grasp for sth.	M							*	*	10	11	M	M		5/2
1310	NEU-DH to desire. M1309.										P	P				0/2
1311	NEUK dark, unclear								P			P				0/2
1312	NEU-KS to scent. W1280.										P		P			0/2
1313	NEWO new	1	2	3	M	5	M	M	8	9	10	11	12	13	14	14/11
1314	NOGW naked	1	2	3		5			8	9	10	11	12		14	10/10
1315	NOGWO tree?	P									P					0/2
1316	NOT buttock		M	M		5			8	M			M			6/2
1317	NU now. M1313.	P	P			P			P	*	P	P	P	P	P	0/9
1318	N'DHOS under. M458.	P	P	P		P			P		P			P		0/7
1319	N'SI dirt, dirty coloured	P				P										0/2
1320	N'SI sword	1	P			?			8	M						3/3
1321	1. O to, with. P420.				P											0/1
1322	2. O (exclamation). P421.	P				P			P	P	P	P	P			0/7
1323	OBHEL to sweep			3		5										2/2
1324	1. OD to smell		?	P		5		7	8	*	P	11	12			5/7
1325	2. OD to hate. M424.			P		P			P		P				P	0/5
1326	OD(E)GO stem	P										P				0/2
1327	OG fruit, berry			*						P	P	11	12			2/4
1328	OID to swell	1	P	3		5	*		M	M	10	11	12			8/7
1329	OK lofty	M		M		P					10					3/2
1330	OK'TO(U) eight	1	2	P	P	5		7	8	9	10	11	12	13		10/12
1331	OKU-S swift	1	2	M		5		M	8	9		M	M			9/5
1332	OKW to see	1	2	3		5		7	8	9	10	11	12	13		11/11
1333	OL to destroy. M1980.					P			P						P	0/3
1334	OM sour, bitter	1	2	3	P	5		P	8	9	10	11	M			9/10
1335	OMESO shoulder	1	?	3		5			8		10			13		6/6
1336	OME to proceed energetically	1	2	M		5		M		M	10	M	M	P		9/5
1337	OND stone, rock	P	P							P						0/3
1338	ONER dream			3		5		7								3/3
1339	ONG coal	1	P					?		9	?	11	12			4/5
1340	ONGW salve; to anoint	1	M	P					8	9	10	11				6/6
1341	ONO to revile, abuse		P			P				P						0/3

No	Root	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Set
1342	ONOGH nail (of finger or toe)	1	2	*		5			8	9	10	11	12			8/8
1343	1. OP to work, produce	1	2	3		5	M	M	8	*	10	M	M		14	11/7
1344	2. OP to choose					5			8				12	P		3/4
1345	OR to pronounce a ritual formula	1				5			8	M	M	*	12		P	6/5
1346	ORBH to put asunder	1		3		5			8	9	10		12		M	8/7
1347	OREW bowel, intestine					P			P							0/2
1348	ORG'HI testicle. W495.		P	P		P		P		P		P				0/6
1349	ORT vine?			P				P								0/2
1350	OS tree (e.g. ash)	M		3		5	P	7	8	9	10	11	12			9/9
1351	OST(H) bone	1	2	3		5	M	7	8	9		M	M		14	11/8
1352	OUG cold	*	*	P						9		11				2/3
1353	O(W)Y-OM egg		2	P		5		M	8	9	M		12			7/6
1354	OWI sheep	1		3		5			8	9	10	11	12		M	9/8
1355	1. OUS/OS mouth	1	2					P	8	9	10	11	12		P	7/9
1356	2. OUS ear		2	3		5		7	8	P	10	11	12		M	9/9
1357	OZDO-S branch	M	2	3		5				M	10		M		M	8/4
1358	OZGHO bud, twig. M1357.		P			P										0/2
1359	PA to feed	1	2	3		5	M	M	8	9	10	11	12	13	14	13/11
1360	PAK' to fix	1	2	M		5			8	9	10	M	12	M	?	10/7
1361	PAN fabric			M		5		M	8		10		M			6/3
1362	PANDO-S crooked								8		10		?			2/2
1363	PANK to swell	M				M			8	M		M	12			6/2
1364	PAP food. W1359.		P			P			P		P					0/4
1365	PAR to show. M1401.					P			P							0/2
1366	PARIKA concubine		2	M		M				P						3/2
1367	PASO-S kinsman by marriage					P			P							0/2
1368	PASTO firm	P		P							P					0/3
1369	PAUS to leave, desert					P						P	P			0/3
1370	PAUSON name of god	P				P	P			*						0/3
1371	1. PED container. M1359.	P									P	P				0/3
1372	2. PED foot	1	2	3		5		P	8	9	10	11	12	13	14	11/12
1373	PEG breast	1	M			M			P		M	11	12	P		6/5
1374	PE(I) to hurt	1	2	3		5		M	8		10		M			8/6
1375	PEY(E) to be fat, swell	1	2	M		5		*	8	P	10	11	12			8/8
1376	1. PEIG to mark	1	2			5			8	M	10	11	12	13		9/8
1377	2. PEIG'/PEIK hostile	1	M	M		M	6	M	8	M	10	11	M			11/5
1378	PEI-M(I) swift, rapid									P	P					0/2
1379	1. PEIS to crush. M1421.	P	P			P			P		P	P	P			0/7
1380	2. PEIS to blow. M1403.	P							P	P	P	P	P			0/6
1381	PEISK fish								8	9	10		P			3/4
1382	1. PEK' to adorn, content									*	P	P				0/2
1383	2. PEK' to pluck; fleece	1	2	3		5		7	8		10	11		M		9/8
1384	PEKW to cook	1	2	3		5		7	8	9	P	11	12	13	M	11/11
1385	1. PEL to fill	1	2	3		5	P	7	8	9	10	11	12			10/11
1386	2. PEL to stir up; dust, meal	1		M		5		M	8	9	10	11	12			9/7
1387	3. PEL to fold	1	P	3		5		7	8	9	10	11	12		M	10/10

No	Root	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Set
1388	4. PEL dish	1	M			5			P		P		M			4/4
1389	5. PEL to sell. M1385.					P					P	P	P			0/4
1390	6. PEL pale (e.g. grey)	1	2	3		5		7	8	9	10	11	12			10/10
1391	7. PEL to burn, be warm									P	10	*	12			2/3
1392	PELE flat; to spread	1	2	3		5		7	8	9	10	11	12	13	14	12/12
1393	PEL(I)-S rock, cliff	1	P			5	P			9	10					4/6
1394	PELK' to turn									P	P		P			0/3
1395	PELPO made of wood?	P							P							0/2
1396	1. PEN to feed		M			M			8		M	11				5/2
1397	2. PEN swamp	P					P			9	10	11	M			4/5
1398	PENKWE five	1	2	3		5		7	8	9	10	11	12	13	P	11/12
1399	PENT to tread, go	1	2	3		5		M	8	M	10	11	12			10/8
1400	1. PER to spray	1	2	M		5	6	M	M	9	10	11	12	13	14	13/10
1401	2. PER forward, through	1	2	3		5	6	7	8	9	10	11	12	M	14	13/12
1402	3. PER to strike	1	2	3		*		P	P	9		11	12		M	7/8
1403	PERD to break wind	1	2	M		5		7	8	P	10	11	12			9/9
1404	1. PERG pole, stem								*		P	P	P			0/3
1405	2. PERG fear										P			*		0/1
1406	1. PERK to fill up	P								P						0/2
1407	2. PERK glowing ash									P		P				0/2
1408	1. PERK' rib, rib-box, breast	1	2			M		M		M	M	11	12			8/4
1409	2. PERK' speckled. P1400.	P			*	P	P			P	P					0/5
1410	3. PERK' to rip up. P/M 1453.	P							P	P	P	P				0/5
1411	4. PERK'/PREK to ask	1	2	3			P		8	9	10	11	12	13		9/10
1412	PERKWU oak	P					P		8	P	10	M	M		M	5/5
1413	PERS to spray. P1400.	P	P								P	P	P	P	P	0/7
1414	PERSNA heel	1	2			5		M	8	M	10				14	8/6
1415	PERTH pole, stick			P		P			*				*			0/2
1416	1. PES to blow	*									P		P			0/2
1417	2. PES dust, sand	P	P										P			0/3
1418	3. PES penis	1				5			8	M	10		M	M		7/4
1419	1. PET/PETE to extend (arms)		2	M		5			8	9	10	P			P	6/7
1420	2. PET/PETE to rush, fly	1	2	3		5		M	8	9	10	11	M		14	11/9
1421	1. PEU to purify	1	2	M		5		M	8	9	10	11	P			9/8
1422	2. PEU to explore. W1423.					P			P				P			0/3
1423	3. PEU to cut, strike					5			8		10	11	12			5/5
1424	PEUK' to stab, box				P	5	P		8	P	10	11				4/7
1425	PEWOR/PUR fire		M	3		5			8	M	10	11	12	13	14	10/8
1426	PEZD to break wind. M1403.					P			P			P	P			0/4
1427	PETE(R) father	1	2	3		5			8	9	10			13		8/8
1428	PID tight; to bear children	M								P	P					1/2
1429	PIK(H)O lumpy; knot		P									P				0/2
1430	PI-LO hair		M			5			8		M	M	P			5/3
1431	PI-N piece of wood	1				5					P		12			3/4
1432	PIP(P) to peep, squeak	P		P		5		7	8	9	P	11	12			6/9
1433	PIZDA female pudenda. M473+1543							P				P	P			0/3

No	Root	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Set
1434	PLAB to flap								M	P	P	M				2/2
1435	1. PLA-K broad, flat. W1392.					P			P	P	P	P	P	P		0/7
1436	2. PLAK to hit. P1392.					P			P	P	P	P	P			0/6
1437	PLAT broad, flat. W1392.	P	P	P		P			P	P	P	P	P			0/9
1438	PLE to split off										P		P			0/2
1439	PLEI bald, naked										P	11	12			2/3
1440	1. PLEK' to plait. W1387.	P	P			P		P	P		P		P			0/7
1441	2. PLEK' to tear. P/M1392.							*			P	P				0/2
1442	PLEU to flow	1	2	3	?	5	P	M	8	9	10	11	12	13		11/11
1443	PLEUK flock, feather. M1442.										P	P				0/2
1444	PL(E)U-MON lung. M1442.	P				P			P			P	P			0/5
1445	PLEUS to pluck							M	8	M	10	11	M			6/3
1446	PLEI to flatten. P1392.					P			P		P					0/3
1447	PLOUTO sth. made of boards								8		P	11	M			3/3
1448	PNEU to breathe	M	M			5					10					4/2
1449	PN'KSTI fist. W1398.										P		P			0/2
1450	1. PO(I) to pasture. W1359.	P	P			P					P	P				0/5
1451	2. PO(I) to drink. M1359.	P	P	P		P		P	P	P		P	P			0/9
1452	POL finger		*						8		M		12			3/2
1453	PORK'O piglet	1	P	?					8	9	10	11	12			6/7
1454	POS next to (in front/behind)	1	2	P		5		M	8			11	12			7/7
1455	PO-TI opposite, towards		P			P										0/2
1456	POTI powerful; lord	1	2	M		5		7	8	M	10	11	12	13	14	12/10
1457	POU few, little	M	2	3		5		7	8	M	10	11	12			10/8
1458	POUGO clear, pure					?				9	M		12		M	4/2
1459	PRA to bend? M1401.								P	P		*				0/2
1460	PRAI/PRI to love	1	2			5				9	10	P	12			6/7
1461	PREG greedy, violent										P		P			0/2
1462	PREP to appear. M1401.			P		P				P	P					0/4
1463	PRET to understand	M								9	10	11		13		5/4
1464	PREU to hop	P							M	M	10	M	12			5/3
1465	PREUS to freeze; burn	1	M					P	8	M	10					5/4
1466	PRIS to crumble?					5		7					M			3/2
1467	PROK'TO buttock			3		5										2/2
1468	PR'SO garlic, leek					5			8							2/2
1469	PSTER to sneeze			P		5			8	9						3/4
1470	PTEL(E)YA tree type. M1385.					P	P		P							0/3
1471	1. PU/P(H)U to blow	1	P	3		5		7	8	9	10	11	12			9/10
1472	2. PU to rot	1	2	3		5			8	9	10	11	?			8/8
1473	1. PUK bushy-haired	1	M			M		M			10	11	P			6/4
1474	2. PUK to fasten	M	2			5		7		M		M				6/3
1475	PU-LO stiff hair	P				P				P						0/3
1476	PU-RO grain. M1400.					P					P	P	P			0/4
1477	PHOL to fall			P							P	P				0/3
1478	RABH to rage. M1511.								P	*				P		0/2
1479	RAP rape, taproot		M			5			8	*	10	11	12			6/5
1480	RAS to (re)sound	1	M							M	10					4/2
1481	RE dark. M1556.	P									P					0/2

No	Root	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Set
1482	1. REBH to move, scamper		P							P	P					0/3
1483	2. REBH to roof over	?				5				M	10	M	12			5/3
1484	1. RED to cheer up										10	P	12			2/3
1485	2. RED to scrape, gnaw. M479.								P	P	P					0/3
1486	1. REG to dye	1	M			5										3/2
1487	2. REG to see?							P				P				0/2
1488	1. REG' to go straight on	1	2	3	*	5	P	M	8	9	10	11	12	13	M	12/11
1489	2. REG' damp, moist							P	P		P	P				0/4
1490	REGWOS darkness	1		3		5					P			*		3/4
1491	1. REI to scratch	1	2			5		M	8	9	10	11	12			9/8
1492	2. REI striped (various colours)	P								9	10	11	P			3/5
1493	3. REI to shout, scream	1	2	?		5		M	8	9	10	11	12	M		10/8
1494	4. REI possession, thing. M96.	P	P						P							0/3
1495	REIBH to (re)sound? M1493.	P										P				0/2
1496	REID to lean against					P			P							0/2
1497	REIDH to ride					5			M	9	10	11				5/4
1498	REIG to bind. M1994.									P	P					0/2
1499	REIG' to stretch out	M							P	9	10	11				4/4
1500	REIK to stretch, totter							M		?	10	P				2/2
1501	REI-R(EI) to quake	P									P					0/2
1502	REITO animal joint, shoulder			3								11	12			3/3
1503	1. REK to tower up. M1506.										P	P				0/2
1504	2. REK to arrange	P									P		P	P		0/4
1505	REK' to bind?	P									P					0/2
1506	REK'T'H to injure	1	2	P		5		7	P	P	10	11			?	6/9
1507	REM to rest	1	2			5			M	9	10	11	M	13	M	10/7
1508	REMB to hack, hoe							M		M	10	11	12			5/3
1509	RENDH to tear up	1								M	10	M	M			5/2
1510	RENT thing?	P								P		P				0/3
1511	1. REP to snatch	1	?			5		P	8	P	10	11	M	P		6/8
1512	2. REP to creep, slink	M	M						8		10	11	*			5/3
1513	3. REP stake, beam		M								10	P	12			3/3
1514	1. RET to run, roll. M479.	P	P						P	P	P	P				0/6
1515	2. RET post, pole. P/M479.	P				P			P	P	P	P	P			0/7
1516	1. REU to bellow. P/M1493.	P				P			P	P	P	P	P			0/7
1517	2. REU to smash. P/M479.	P	P			P			P	P	P	P	P			0/8
1518	REU-B to belch, vomit	M	2	3		5		*	8	M	10	11	12			9/7
1519	REUDH red	1	P	M		5	*		8	9	10	11	12	13		9/9
1520	REUGH-MEN cream?		2								10					2/2
1521	REUS elm?									P	*					0/1
1522	REU-SMEN to ruminate; throat	P							8	P	?	M				2/3
1523	REUTO animal stomach/intestine		P								P					0/2
1524	REWE to open; space. M480.		P						P	P	P	P	P	P		0/7
1525	REZG to plait, weave; reed	1							8	M	10	11	12			6/5
1526	RU fabric									P	P					0/2

No	Root	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Set
1527	R'KSA fetlock.	P										*				0/1
1528	R'K'T'O-S bear. P1506.	P	P	P		P		P	P	P						0/7
1529	SA to satisfy	1		3		5			8	9	10	11	P	M	M	9/8
1530	SAG to seek	M		M		5			8	9	10				14	7/5
1531	SAI suffering	M				P			8	9	10	11			M	6/5
1532	SAIP enclosure of thickets					P			P							0/2
1533	SAK to sanctify								8					M	14	3/2
1534	1. SAL salt	1	M	3	P	5	P	7	8	9	10	11	12	13		11/12
1535	2. SAL dirty grey. P/M1534.	P							P	P	P		P			0/5
1536	SALO way						P		P	P		P				0/4
1537	SANO-S healthy. M498.								P							0/1
1538	SAP to taste	M	2	3		M	P		8	9	10	M	M			9/6
1539	SASYO gricultural produce	1	2	M						9		?				4/3
1540	SAUS dry	1	2			5		P	P	?	10	11	12			6/8
1541	SAWEL sun	1	2			5		7	8	9	10	11	12		M	10/9
1542	SE/S(W)E on the side, own	1	2	3		5	6	7	8	M	10	11	12	M	M	13/10
1543	SED to sit	1	2	3		5		7	8	9	10	11	12	M	M	12/10
1544	1. SEG to sow (seed)								P	P						0/2
1545	2. SEG to attach	1	2	M		5	P	M	8	9	10	11	12	M	M	12/9
1546	SEG'H to hold. M1545.	P	P			P	P			P	P					0/6
1547	SEI to drip						P			P	P	P				0/4
1548	1. SE(I) to sift	M	M	M		5		7	M	9	10	11	12			10/6
1549	2. SE(I) to sow	1	2	M		5		M	8	9	10	11	12			10/8
1550	3. SE(I) to bind	1	2	M		5		M	8	9	10	11	12	M	14	12/9
1551	SE(I)DH to aim. M1549.	P	P			P										0/3
1552	SEIK to reach, grip. M1553.					P					P	P				0/3
1553	SEIKW to pour out	1	2	M		5	*		8	9	10	11	12	M		10/8
1554	SEIP to pour out					M			8	M	10		P	13		5/4
1555	1. SEK to drain	1	P			P				P	*	11	12			3/6
1556	2. SEK to cut	1	2	3	M	5	6	7	8	9	10	11	12	13	P	13/13
1557	3. SEK slack; to relax					5		M	8		M			M		5/2
1558	1. SEKW to follow	1	2	M	M	5		M	8	9	10	11	M	M		12/7
1559	2. SEKW to perceive			M		5			8	9	10	11	12	P	14	8/8
1560	1. SEL human settlement			M		5		M	8	P	10	11	12			7/6
1561	2. SEL/SWEL post, board			M		P		P	?		10	P				2/4
1562	3. SEL to take, grasp			M		5			M	9	10	M	12			7/4
1563	4. SEL to jump	P	M	M		5			8	9		11	12	M		8/6
1564	5. SEL to creep, crawl	1	2	M		5		P	M	9	M	11		M	M	10/6
1565	6. SEL/SELE well-disposed					P			P	P	10				?	1/4
1566	SELG' to release	1	2	M				M		9	10					6/4
1567	SELK to pull. P/M1980.			P		P		P	P		P			P		0/6
1568	SEL-ES swamp, sea. M1564.	P	P			P										0/3
1569	SELP fat	1				5		7			P	M		13		5/5
1570	1. SEM to pour, draw water	M		M		5	P		8	9	M	11			*	7/5
1571	2. SEM/KSUN one, together	1	2	3	?	5	M	M	8	9	10	11	12	13	M	13/10
1572	3. SEM/SEME summer	1	2	3						9	10					5/5
1573	SEMI half. M1542.	P				P			P		P					0/4
1574	SEN to prepare. M501.	P				P				P					P	0/4

No	Root	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Set
1575	SENDHRO crystalline deposit										10		12			2/2
1576	SENGW to sink			3		5					10					3/3
1577	SENGWH to sing. M1571 + 598.	P				P				P	P					0/4
1578	SEN(I) apart	P	P			5			8	9	10		P	P		4/8
1579	SENK to burn					M					10		P		M	3/2
1580	SEN(O)/SEN old	1	M	3		5			8	9	10	11				8/7
1581	SENT' to head for, go		2	P		M		M	8	9	10	P	12	M		8/7
1582	SEP to foster	P	P			P			P							0/4
1583	SEPTM' seven	1	2	3		5		7	8	9	10	11	12	13	14	12/12
1584	1. SER to flow	1	2		P	5	P	*	8	9	P	11	12		M	8/10
1585	2. SER to protect		2			5			8	M	M	11	M		M	8/4
1586	3. SER red, reddish	P							8		10	11	12			4/5
1587	4. SER to line up	1	M			5			8	9	10	P		M	14	8/7
1588	5. SER sickle	P				5		M	8	M	P	11	12		M	7/6
1589	SERK to make whole					5			P						P	1/3
1590	SERP to crawl, creep	1				5		7	8		M	M				6/4
1591	1. SEU juice	1	2	M		5	6	7	8	9	10	11	12	13	M	13/11
1592	2. SEU to give birth. M1591.	P	P	P		P				P	P	P	P	P		0/9
1593	3. SEU to bend, turn	P	P			M			M	P	M	11	12		P	5/6
1594	4. SEU to seethe	M	2						M	M	10	11	12			7/4
1595	SEUG afflicted, sad, ill			3						P	10					2/3
1596	SEWE to leave behind?					P					P					0/2
1597	SEWYO left	P	P										P			0/3
1598	SYE(U)-RO-O wife's brother	P											P			0/2
1599	SYU to sew	1				5			8	M	10	11	12		14	8/7
1600	SKABH to prop up	1	2	M					P			M	M			5/3
1601	(S)KAI bright. M781.	P	P			P			P		P	P				0/6
1602	(S)K(H)AI to strike.	*		P					P		P					0/3
1603	SK'AI to gleam	1	2			5		7	*	M	10	P	12	13		8/8
1604	(S)KAMB to curve, bend	M				5		M		9	10	M	M			7/3
1605	(S)K(H)ED to split. P1556.	P	P	P		P		P	P		P	P	P			0/9
1606	SK'ED to cover?	P	P								P					0/3
1607	SKEI to cut, separate. W1556.	P	P	P		P			P	P	P	P	P			0/9
1608	SKEI-BH slanting					5			?		10	11				3/3
1609	(S)KEK to jump	1		M		5		?		9	10	P	12			6/6
1610	1. (S)KEL to cut	1	M	3	P	5		7	8	9	10	11	12	M	14	12/11
1611	2. (S)KEL to be obliged										P	P				0/2
1612	3. (S)KEL/SKELE to wither					5					10	11				3/3
1613	4. (S)KEL crooked. P/M852.					P		P	P		P	P	P			0/6
1614	(S)K'EL to jump. W. Non-IE.	P									P	P				0/3
1615	SKHEL to stumble	P		P												0/2
1616	(S)K'EM mutilated. M860.	P									P					0/2
1617	(S)KEN-D to split off. M1556.									P	P					0/2
1618	SKENDH to dive down	M	M	M		5			M	M	M	11	M			9/2
1619	(S)KENG crooked	1	M	M		5				M	10		M			7/3
1620	1. (S)KEP to cover, hide			M		5				M	M	11	12			6/3
1621	2. (S)KEP to cut, scrape	M	2	M		5	P	7	8	9	10	11	12			10/9

No	Root	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Set
1622	1. (S)KER to wrinkle up	?		?					M	M	10	11	12			5/3
1623	2. (S)KER to leap, jump about	1	2	M		5		7	P	9	10	11	12	13		10/10
1624	3. (S)KER to turn, bend	P	2	P		5	?	7	8	9	10	11	12	M		9/10
1625	4. (S)KER to cut. W1556.	P	P	P		P	P	P	P	P	P	P	P	P	P	0/13
1626	SKER-D excrement. W1556.		P			P			P	P	P	P	P		P	0/8
1627	(S)KERB(H) to turn. W1624.					P			*	P	P	P	P			0/5
1628	(S)KER-DH small. P/M1556.	P				P						P				0/3
1629	(S)KERT-S across. M1556.			P		P						P	P			0/4
1630	SKET to jump	M	M			*			8	M	P	11				5/3
1631	SKET(H) to injure		M	M		P		?		9	10	M	M			6/3
1632	1. (S)KEU to prepare, do	M				5					10	M	P			4/3
1633	2. (S)KEU to watch, care for	1	2	3		5	M	M	8	9	10	11	12		?	11/9
1634	3. SKEU to sneeze	P	P								10	11	P			2/5
1635	4. SKEU-(T) to cut. M1556.	P				P			*	P	P	P				0/5
1636	SK'EU to throw, shoot					?						11	12			2/2
1637	SKEUB to shove	M	M	M						M	10	11	12			7/3
1638	1. SKEUD unwilling. M1645.					P						P				0/2
1639	2. (S)KEUD to shoot, chase	1	2	M		P		7		M	10	11	P			7/7
1640	(S)KEUP cluster	M	M	M		M			?	?	10	M	12			7/2
1641	(S)KEUT to shrivel up										P	P				0/2
1642	SK'LEK wet; to spray	M									P	11				2/2
1643	SKORDHO pan, shard?										P	P	P			0/3
1644	SKOT dark shade					5				9	10	M				4/3
1645	(S)KUT to shake		M	M		5			?	M	10	11	12		M	8/4
1646	(S)KWALO big fish		M			M			8	M	10	11	M			7/3
1647	SKWERB(H) to prick									P		P				0/2
1648	SK(H)WOY thorn									P		11	12			2/3
1649	(S)LAGW to seize					5					10					2/2
1650	SLAK to strike. M1049.									P	P					0/2
1651	(S)LEG to be slack. M1075.	P				P			P	P	P	P	*	*		0/6
1652	SLEGW to press. M1070.					P						P				0/2
1653	(S)LEIDH to slip. P1072.	P				P			*	P	P	P	P			0/6
1654	(S)LEIG to hit, hack.								8	9	P					2/3
1655	SLENGWH to slide. W1072.									P	P	P	P			0/4
1656	(S)LEU slack, hanging. M1075.									P	P	P	P			0/4
1657	SLEUB(H) to slide. M1072.								P		P					0/2
1658	(S)LEUG to swallow		M			5				9	10	11	12			6/5
1659	(S)LEUG' to slide. M1072.										P	P	P			0/3
1660	(S)LEUP to hang slack									M	10	P				2/2
1661	SLI bluish								8	9	P		12			3/4
1662	SLOUG help, service									9		11	12			3/3
1663	(S)LR'G					P			P		P	P				0/4
1664	1. SME truly, certainly	1	M			5		M	8	M	M	M	M	M	14	11/4
1665	2. SME to smear			3		5			8	M	10	11	12			7/6
1666	SMEG to taste. M1142.										P	P				0/2
1667	1. (S)MEI to laugh. M1181.	P				P			P	P	P	P	P	P		0/8
1668	2. SMEI to cut. M1669.					P					P	*				0/2
1669	(S)MEIT to throw, strike		P			P			8	M	10	M				4/4

No	Root	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Set
1670	SMEK chin, beard	1		3				7	*	9	10	11			P	6/7
1671	1. SMEL to smoulder. M1196.									P	P	P	P			0/4
1672	2. SMEL grey. P1196.					P						P				0/2
1673	(S)MER to remember	1	2	3		5			8	9	10	11	12			9/9
1674	SMERD to stink. W1229.					P			P		*	P	P			0/4
1675	SMERW/SMER grease, fat					5			8	9	10	M		M		6/4
1676	(S)MEUG to smoke		M	3		5		M	M	9	10	11	12			9/6
1677	SMOG leavy, burdensome			M		5			?	M	M	11	M			6/2
1678	SNA/SNU to swim; nose	1	2	3	P	5	P	M	8	9	10	11	12	M		11/11
1679	(S)NADH to cut in									9	10					2/2
1680	(S)NE to spin, sew. M1550.	P				P			P	P	P	P	P			0/7
1681	(S)NEBH-RI narrow, thin			3						M	10					3/2
1682	SNEIGWH to snow	1	2			5			8	9	10	11	P			7/8
1683	SNEIT to cut. M1847.										P		P			0/2
1684	SNEP to twist into a rope								P		P		P			0/3
1685	1. (S)NER to growl, snarl	M	M			P			M		10	11				5/3
1686	2. (S)NER to wind twist	1	2	P		5		M			10	11	12			7/7
1687	(S)NERB to cut?					5					10					2/2
1688	SNEU to turn. W1550.	P	P	P		P		P	P		P	P	P	P		0/10
1689	SNEUBH to woo, marry					5			8				12			3/3
1690	1. SNEUD(H) sleepy; to slumber					5					M	P				2/2
1691	2. SNEUD(H) mist, cloud		P			P			P	P						0/4
1692	SNUSOS daughter-in-law	1	M	3	M	5		*	8		10		12			8/6
1693	SO this, that	P	P			P		P	P	9	10			P		2/8
1694	SOLO/SOLE whole	1	2	3		5		7	8	9	M			13		9/8
1695	SO(U)RA calf (of leg)					P			P							0/2
1696	SPAKO small drop					P						P				0/2
1697	SPE long, flat piece of wood			M		5				M	10				*	4/2
1698	SPEG' to keep a sharp watch			M							10		12	M		4/2
1699	1. SPEI sharp; point	P	M	3		5		M	8	M	10	11	12	13	M	11/8
1700	2. SP(H)EI to pull. M1701.					P				P	P					0/3
1701	3. SP(H)E(I)/SPEI to pull	1		3		5			8	9	10	11	12	M	14	10/9
1702	SPEK' to observe	1	2	M		5		7	8		10	M		M		9/6
1703	SPEL to say aloud			P		P					P	P		P		0/5
1704	1. (S)P(H)EL/SPEL to split	1	2			5		P	8	9	10	11	12	P		8/10
1705	2. (S)P(H)EL/SPEL to shine	1		P		P			P	M	10	11				4/6
1706	(S)P(H)ELG to split			3		P		M		M	10	P				4/4
1707	SP(H)ELG'H(EN) milt, spleen	1	2	3		5			8	9			12			7/7
1708	1. SPEN to draw	M	M	3		5		M	8	M	10	11	12			10/6
1709	2. (S)PEN wooden pail			P					8	9	10	M	12		?	5/5
1710	SPEND to make an offering					P			P						P	0/3
1711	SP(H)E(N)D to quiver	1				5					10	11				4/4
1712	SP(H)ENG to glitter					*					P	P				0/2
1713	SPENO nipple, breast	1	2	3		5		?	M	9	10	11		M	M	10/7
1714	1. SPER spear, pole. M1718.					P		P	P		P		P			0/5
1715	2. SPER bird name	M	M			5		M	P	9	10	11	M	13		9/6
1716	3. SPER to turn, twist	P	P	P		5				M	10	11	12	M		6/7

No	Root	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Set
1717	4. (S)P(H)ER to rip; rag			P		5				M	P		*			2/3
1718	5. SPERE to strew; ankle	1	2	3		5		7	8	9	10	11	12	M	M	12/10
1719	6. (S)P(H)ER to strew. P/M171.			P		P				P	P	P				0/5
1720	7. SP(H)ER sheep/goat dung, pill					P					P	P				0/3
1721	SP(H)ERD(H) to quiver. M1716.	P	P			P					P	P	P			0/6
1722	SPREG to quiver. P/M1400.	P	P			P		P	P	P	P	P	P			0/9
1723	SPERG'H to hurry. P/M1400.	P	P			P				P	P					0/5
1724	(S)P(H)EU-D to press		P	M		5		M		M	10	11				6/4
1725	(S)PIK bird, e.g. woodpecker	1						M	P		P	P				2/4
1726	(S)PING bird, e.g. sparrow	1				5			P		10	M				4/4
1727	(S)P(H)(Y)EU to spew, spit	1	2	3		5		M	8	M	10	11	12			10/8
1728	(S)PLEI to split. W1704.									P	P	P				0/3
1729	(S)PLEIG'H to spread legs	P				P				P						0/3
1730	(S)POIM foam, spray	1	P						P	M	P	P	P			2/6
1731	SP(H)REIG to overflow					5				M	10	M				4/2
1732	SRAKW-TO sharp-edged	P	P			P										0/3
1733	SREBH to suck			3		5		7	8	9	10	11	12		M	9/8
1734	SR-EDH to spout. W1584.					P				P	P					0/3
1735	(S)REIGH to clamber	P				P										0/2
1736	SRENK to snore			M		5			?	9	M					4/2
1737	SRENO body part, e.g. loins		2						M		M	11				4/2
1738	SRESK to drip?		P	P								P				0/3
1739	SREU to flow	1	2	3	P	5		M	M	9	10	11	12			10/9
1740	SREUP body dirt		M			5							12			3/2
1741	SRIG cold		M			5			8	M		*	M			5/2
1742	SROMO lame	P									M	?	12			2/2
1743	STA to stand	1	2	3		5	P	7	8	9	10	11	12	13	M	12/12
1744	STAG to seep					P			P	P						0/3
1745	1. (S)TAI to act secretly	1	2			5			M	9			12		14	7/6
1746	2. STAI stone. M1773.	P	P			P			P		P	P	P			0/7
1747	STAK to stand. P1743.	P	P						P		P	P				0/5
1748	STEB(H) post. P/M1743.	P	P			P				P	P	P	P			0/7
1749	1. (S)TEG to cover; roof, house	1				5			8	9	10	11	M			7/6
1750	2. (S)TEG pole, stick. P/M1754.			P					P		P	P	P			0/5
1751	STEGH stick, prick. M1754.					P					P	P	P			0/4
1752	(S)TEI pointed. P1754.	*	P						P		*					0/2
1753	STEIB(H) to stick, compress	1	M	3	M	5			8	M	10	11	12			10/7
1754	STEIG to stick; pointed	1	2	3		5		M	8	9	10	11	12		M	11/9
1755	STEIGH to stride, slimb	1	M			5		7		9	10	11	12			8/7
1756	(S)TEIGW shoulder, arm. M1754.			P						P			P			0/3
1757	(S)TEIGWH to endure. M1754.	P									P	*				0/2

No	Root	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Set
1758	1. (S)TEL to let flow, urinate			M		5				M	10	*	*			4/2
1759	2. STEL to extend. M1841.			P					P			P	P			0/4
1760	3. STEL to put, stand. M1743.	P		P		P		P	P	P	P	P	P			0/9
1761	STEM to push, thrust. M1743.										P	P				0/2
1762	1. (S)TEN loud noise, thunder	1	P			5			8	9	10	11	12			7/8
1763	2. STEN narrow					5					10	P				2/3
1764	1. (S)TER stiff	1	M	3		5	M	7	8	9	10	11	12	M		12/9
1765	2. STER star	1	2	3		5			8	9	10			M	M	9/7
1766	3. STER to rob, steal					P				P	P					0/3
1767	4. STER strip, beam. W1764.					P				P	P	P	P			0/5
1768	5. STER to spread out	1	2	?		5		7	8	9	10	11	12	M		10/9
1769	6. STER barren. P/M1764.	P		P		P		P	P		P		P			0/7
1770	7. (S)TER-N plant name. W1764.	P				P					P		P			0/4
1771	8. (S)TER urine, dung. W1556.		P	P		P			P	P	P	P	P			0/8
1772	STERG to pay attention					P				9			12		M	3/3
1773	1. (S)TEU to push, stick, beat	1	P	M		5	M	7	8	9	10	11	12		M	11/9
1774	2. STEU to praise aloud	1	P			P					M	M				3/3
1775	STEW(E) to coagulate. M1773.	P				P						P	P			0/4
1776	STILP to shine, look					P				P						0/2
1777	STOMEN/STEMEN orifice, mouth		2			5				9						3/3
1778	STORO bird, e.g. starling								8		10	P	*			2/3
1779	1. STREIG to stop. M1764.								P		P	P	P			0/4
1780	2. STREIG stiff. P1764.								P		P					0/2
1781	3. (S)TREIG to hiss. M880.					P			P					P		0/3
1782	STRENK tight. P/M1764.					P				P	P	P				0/4
1783	(S)TREP to make a noise. M880.								P		P					0/2
1784	STRU old (man)									P		P	P			0/3
1785	SU well, good	P	P			P				P	P	P	P			0/7
1786	SEUE pig	1	2			5		7	8	9	10	11	12	13		10/10
1787	SURO sour. M994.									P	P	P	P	*		0/4
1788	1. SUS to whistle. M1815.										P	P	P			0/3
1789	2. SUS creator	P						P								0/2
1790	SWAD sweet	1	2	M		5			8	9	10	11		M		9/7
1791	SWARD to laugh					P				P						0/2
1792	1. SWEI to whistle, hiss	1	M	?		5		M	8	9	10		12			8/6
1793	2. SWEI to bend, turn. M993.		P			P				P	P	P	P	P		0/7
1794	1. SWEID to shine		P	M		M			8	M	M	11	M			7/3
1795	2. SWEID to sweat	1	2	3		5		P	8	9	10	11				8/9
1796	3. SWEID milk	P	P									*				0/2
1797	SWEK to smell good									P	P					0/2
1798	SWEKRU husband's mother	1	2	3		5		7	8	9	10	11	12			10/10
1799	SWEK'S six	1	2	3		5	P	7	8	9	10	11	12	13		11/12
1800	S(W)EKWO-S sap, resin. M1591.					P		P				P	P			0/4
1801	1. SWEL to eat, drink		P	M							10		M			3/2

No	Root	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Set
1802	2. SWEL to shine, burn	1	M	M		5		M	8		10	11				8/5
1803	3. SWEL sole (foot). W1560.					P			P	P						0/3
1804	SWE-LO brother-in-law. M1542.					P					P					0/2
1805	SWELPLO-S sulphur. M1802.								P		P					0/2
1806	SWEM to move, stir									P	P					0/2
1807	SWEN to sound	1	2			M			8	9	10	*				6/5
1808	(S)WENDH to dwindle?			M		M				*	10		12	M		5/2
1809	SWENG(W)to swing, turn, toss	1	2	M		M				9	10		M			7/4
1810	SWENK to be heavy, pregnant					M					10	P				2/2
1811	SWENTO healthy. M1581.										P					0/1
1812	1. SWEP to sleep	1	2	3		5		7	8	9	10	11	12	13	14	12/12
1813	2. SWEP to throw	P				M			8		P	M	12			4/4
1814	1. SWER to speak. P/M1815.								P		P		P			0/3
1815	2. SWER to buzz, speak	P	M		?	5			8	9	10	11	12			7/7
1816	3. SWER post, rod	1	M			5			8		10	?				5/4
1817	4. SWER to cut, pierce	M	2							9	10		12			5/4
1818	SWERBH to turn		M	M		M			M	9	10	M	12	M		9/3
1819	SWERGH to worry	P						7		9	10	11	12	M		6/6
1820	SWESOR sister. M1542.	P	P	P		P			P	P	P	P	P	P		0/10
1821	SWI to be silent. M993.					P					P					0/2
1822	SWOMBHO spongy					P					P					0/2
1823	SWORDO black, dirty. M1584.								P		P					0/2
1824	TA to melt		2	P	P	5	P		8	9	10	11	12			7/10
1825	TAD to act cautiously					P			P							0/2
1826	1. TAG to touch, handle				*	5			8	P	10	M	M			5/4
1827	2. TAG to set in order					P				P		P		P		0/4
1828	TAK to be silent								8	9	10					3/3
1829	TAL to grow, turn green	M	M			5			8	M	M	11	M			8/3
1830	1. TAP to dip in			P									P			0/2
1831	2. TAP to compress. M1773.					P					P	P				0/3
1832	TATA daddy	1	2	M		5		7	8	9	10	11	12	M	14	12/10
1833	TAUS calm, silent	1	2	M						9	10	11	12		P	7/7
1834	TEG to burn					P					P					0/2
1835	TEGU thick. M1879.									P	P					0/2
1836	1. TEK to give birth	1	M			5					10					4/3
1837	2. TEK to reach out. M1851.									P	P	P	P			0/4
1838	3. TEK to weave		P	P							P		*			0/3
1839	TEK'T'to plait	1	2	M		5		M	8	9	10	11	12		14	11/9
1840	TEKW to run, flee	1	2	M		M		7	8	9	10	11	12	13	P	11/10
1841	1. TEL to lift, weigh	1	M	3	M	5	P	M	8	9	10	11	12	13	?	12/10
1842	2. TEL ground, floor. M1841.	P		P		P			P	P	P	P	P			0/8
1843	3. TEL to be still. M1841.									P		P	P			0/3
1844	TELEG'H to hit?	P				M				M		11				3/2
1845	TELEK to push									P		P	P			0/3
1846	TELP to have room	1	?					M		9		11	12	13		6/5

No	Root	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Set
1847	1. TEM to cut		M			5			8	9	10	11	12			7/6
1848	2. TEM stunned	1	M	P					8	9	P		12			5/6
1849	TEME dark	1	2			P	P		8	9	10	11	12	13		8/10
1850	TEMP to stretch. W1851.		P	P					P		P	P	P	P		0/7
1851	TEN to stretch	1	2	3		5		7	8	9	10	11	12	13		11/11
1852	TENEGOS bottom of the water					P						P				0/2
1853	TENG to soak					5			8		10					3/3
1854	TENGH to pull. W1851.		P	P					P		P	P	P	P		0/7
1855	1. TENK to pull										P					0/1
1856	2. TENK to become firm. M1851.	P	P							P	P	P	P			0/6
1857	TENS to stretch. W1851.	P	P						P		P	P				0/5
1858	TENU-S thin. M1851.	P	P			P			P	P	P	P	P			0/8
1859	TEP to be warm	1	2	M				7	8	9	10		12		14	9/8
1860	1. TER to quiver	1	P	M		5		7	8	P	10	11	12	13	?	9/10
1861	2. TER tender, weak	1	2	3		5		P	8	M	10	11	M			9/8
1862	3. TER/TERE to rub, turn	1	M	M	M	5	M	7	8	9	10	11	12	13	M	14/9
1863	4. TER peg, post. M1862.	P	P	P		P	P	P	P	P	P				P	0/10
1864	5. TER/TERE to cross. M1862.	P	P			P			P	P	P					0/6
1865	6. TER gnawing insect. M1862.					P			P	P						0/3
1866	TERD to bore through. M1862.	P								*		P	P			0/3
1867	TERGW to threaten. M1862.	P				P			P	P	*					0/4
1868	TERK to turn. W1862.	P				P			P	P	P	P	P	P		0/8
1869	TERP to satisfy oneself	1	2	M		5				M	M	11	M	P		8/5
1870	TERS to dry. M1862.	P	P	P		P		P	P	P	P					0/8
1871	TET(E)R to chatter (geese)	1	2	P		5			8	P	10	11	12			7/9
1872	1. TEU to pay attention to		M			?			8	P	10	M	M		M	6/3
1873	2. TEU/TEUE to swell	1	2	3	P	5	6	7	8	9	10	11	12	13	14	13/14
1874	TEUK germ, sprout, seed	P	P								P					0/3
1875	TEUP to crouch down	M				P		M		M	10	11	M			6/3
1876	TEUS to empty	1	2					M	P	M	10	M	12			7/5
1877	TEWE to sift, riddle	P				P										0/2
1878	TI-TI twittering (small birds)	1				P			8			11				3/4
1879	TYEGW shy; to step back	P	2	M		5				P	10					4/5
1880	TO the, this, that	1	2	3		5		7	8	9	10	11	12	13	M	12/11
1881	TOLKW to speak. M1862.								P	P			P			0/3
1882	TONG to think, feel			M				7	8	M	10		M	13		7/4
1883	TOP to reach a place	M				P				*	10	11				3/3
1884	TOR loud, audible	P		P		P				P		11	P		14	2/7
1885	TRAGH to draw, drag. M1862.								P	P	P		P			0/4
1886	TREB dwelling					5			8	9	10	11	M		?	6/5
1887	TREG to exert oneself		M						M	P	10	11	12		M	6/4
1888	TREI three	1	2	3		5	P	7	8	9	10	11	12	13	14	12/13
1889	TREISTI sulky								P		P					0/2

No	Root	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Set
1890	TREK to pull		*							P			P			0/2
1891	TREM to tremble. P1860.					P		P	P		P	P	P	P		0/7
1892	1. TRENK to compress	M	P						P	9	10	11	12			5/6
1893	2. TRENK to wash. M1902.									P		*				0/1
1894	1. TREP to tremble. P1860.	P	P			P		P	P		P	P	P			0/8
1895	2. TREP to turn away (shame)	1				P			P							1/3
1896	TRES to tremble. P1860.	P	P	*		P			P	P		P				0/6
1897	TREU to prosper		P							M	10	M				3/2
1898	TREUD to squeeze. M1862.							P	P	P	P		P			0/5
1899	TRIYETO wet element?					P				P						0/2
1900	TRIS plant stem, vine					P		P				M	12			2/3
1901	TROZDO thrush			M		M			8	9	10	11	12			7/5
1902	TRUDES leprosy		M							9	10	?	M			4/2
1903	TRUS reed?					P						P	P			0/3
1904	1. TU, TUTU bird-cry. M1773.	P				P			P		P	P				0/5
1905	2. TU thou, you	1	2	3		5		7	8	9	10	11	12	13	14	12/12
1906	TU-LO slow, boring										P	P				0/2
1907	1. TWAK to embrace, bind	1	M	M		5						M	M			6/2
1908	2. TWAK to bathe. M1909.										P	P				0/2
1909	TWAKOS skin	1	M	M		5			M		P	P			14	6/5
1910	1. TWEI to hew. W1911.										P	P				0/2
1911	2. TWEI to agitate, toss	1	2			5			M		P	11				5/5
1912	TWENG'H to press in or on s.o.		P								P					0/2
1913	1. TWER to turn, whirl. M1862.	P	P			P			P	P	P					0/6
1914	2. TWER to hold, grasp. M1873.					P				*	P	P				0/3
1915	TWERK' to cut	P	P			P			*	*						0/3
1916	TWIBH hollow like a pipe					5		M	P		M		M			4/2
1917	TWO(U) pipe?	1	M	M		5		M		M	M	M	12			9/3
1918	U to hoot. M1922.									P	P	P	P			0/4
1919	UB to press (down)	P	P									P				0/3
1920	UD up, outwards	1	2	M		5			P	9	10	11	12		M	9/8
1921	UDERO abdomen, womb	1	2			5			8		10	11				6/6
1922	UL to howl, hoot	1	M	M		5		M	8	9	10	11	12			10/7
1923	UPER over, above	1	2			5			8	9	10					6/6
1924	UPO/WEP under, up from	1	2			5			8	9	10	M	12		14	9/8
1925	1. WA to hit			P		P				P	P	11				1/5
1926	2. WA to bend; apart. W1993.	*							P							0/1
1927	WAB to cry, scream		P						M		10	11	12		M	5/4
1928	1. WADH pledge								8		10	P				2/3
1929	2. WADH to go			P					8	M	10					3/3
1930	1. WAG sheath, cover					*			P			P		*		0/2
1931	2. WAG to cry, shriek	P							P			P				0/3
1932	WAGH/SWAGH to shriek					5					M	M	M			4/1
1933	1. WAI alas. M436.		P	P		P		P	P	P	P	P	*			0/8

No	Root	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Set
1934	2. WAI weak, miserable	P								P	P	P				0/4
1935	WAK cow	1	M						8	M						4/2
1936	WAL to be strong. M494.								P	P	P	P	P	P		0/6
1937	WANK' beam	1								9		M				3/2
1938	1. WAP to chatter. P/M1927.										P	P				0/2
1939	2. WAP to call. P1927.		P			*			*				P			0/2
1940	1. WAT to blow, inspire. M124.	*							P	P	P					0/3
1941	2. WAT to crook, bend					M			8	M	10					4/2
1942	WAZDH wide, long. P/M509.								P	P						0/2
1943	WE we	1	2			M					10	P	12	13	14	7/7
1944	WEBH to weave	1	2			5		P	8	9	10	11	12	13		9/10
1945	1. WEDH to thrust. M124.	P	P			P				P		P				0/5
1946	2. WEDH to lead	1	2			5		*		9	10	11	12	M	M	9/7
1947	3. WEDH to tie	P				P		M		9	10		M		P	4/5
1948	WEG to weave. P/M1953.	P							P	P	P					0/4
1949	WEG' to be strong	1	2	M		M			8	M	10			13	M	9/5
1950	WEGW to wet	1	2			5			8	9	10	M		13		8/7
1951	WEG'H to go (by vehicle)	1	2			5		7	8	9	10	11	12			9/9
1952	WEG curved, bent. P/M1953.								P	P						0/2
1953	1. WEI/WEIE to turn	1	2	M	M	5		7	8	9	10	11	12	13	M	13/10
1954	2. WEI to wither	1	2	P		5		M	8	9	10	11	P		?	8/9
1955	3. WEI to attack. P/M435.	P	P			P			P	P	P	P	P			0/8
1956	1. WEID to turn. P/M1953.	P				P			P			P				0/4
1957	2. WEID to see, notice	1	2	3		5			8	9	10	11	12			9/9
1958	WEIDH to divide. P/M686 + 359	P	P			P			P	P	P	P	P			0/8
1959	1. WEIK magic	P	M						P		10					2/3
1960	2. WEIK strong, hostile force					M			8	9	10	11	12	M		7/5
1961	3. WEIK to happen, prove right					5				M	M	11				4/2
1962	4. WEIK to bend. P/M1953.	P	P			P			P		P	P	P			0/7
1963	WEIK' clan; house	1	2	M		5		?	8		10	11	12	M		9/7
1964	WEIP to turn	1	2			5			8	9	10	11	M			8/7
1965	1. WEIS to sprout. M686.								P		P	P				0/3
1966	2. WEIS to turn. P1953.	P		P		*			P		P	P	P			0/6
1967	3. WEIS to flow away. P/M1953.	P	P	P		P			P	P	P	P	P			0/9
1968	1. WEK to bend. P1953.	P	P	P					P	P	P	P				0/7
1969	2. WEK to be bent. P/M1953.								P	P						0/2
1970	WEK' to want, wish	1	2	*		5									14	4/4
1971	WEKW to speak	1	2	3		5			8	9	P	11	M	13	14	10/10
1972	WEK-TI thing. M1951.										P		P			0/2
1973	1. WEL to see					M			8	9	10	M				5/3
1974	2. WEL to want; will	1	2	P		5	P		8	9	10	11	12	M	M	10/10
1975	3. WEL to press, crowd	P	M	M		5		M	8	9	M	11	P	P		8/7
1976	4. WEL wool, hair. P/M1979.	P	P			P			P	P	P	P	P			0/8
1977	5. WEL to deceive. M1979.					*				P		P				0/2

No	Root	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Set
1978	6. WEL warm? M1979.			P								P				0/2
1979	7. WEL to turn	1	2	3		5	M	7	8	9	10	11	12	13	M	13/11
1980	8. WEL to tear	M	P	P		5		7	8	9	10	11	12	13	14	10/11
1981	1. WELK to pull. P/M1980.		P			P						P	P			0/4
1982	2. WELK wet	M	M	M		M	P	M		9	10	11	12		M	10/5
1983	WEM to spew, vomit	1	2			5			8		10	11				6/6
1984	WEN to desire, strive	1	2			M	P		8	9	10	M	P	P	P	7/9
1985	1. WENDH to turn	1		3		5			M	?	10		M	M		7/4
1986	2. WENDH to wane												P			0/1
1987	3. WENDH hair, beard. M498.					P				P	P	P	P			0/5
1988	WE-N-G to bend. P/M1953.	P						P			P	P				0/4
1989	WE-N-GH to be bent. P/M1953.										P					0/1
1990	1. WEP water	1					P			P		P	12		14	3/6
1991	2. WEP to throw, strew	P	P						*			P	P			0/4
1992	1. WER to tie. P/M1953.	P				P		P	*	P	P	P	P	P		0/8
1993	2. WER raised place	1	2	M	*	*			8	9	10	11	12	*		8/7
1994	3. WER to turn. M1953.	P	P			P	P	P	P	P	P	P	P	P		0/11
1995	4. WER to find			P		P				P		P	P			0/5
1996	5. WER to shut. M1953.	P	P			P		P	P	P	P	P	P	P		0/10
1997	6. WER to proclaim. M479.	P	P			P			P		P	P	P		P	0/8
1998	7. WER to root, gnaw	1	2	P		P		7	8		10	11	12			7/9
1999	8. WER to notice					5			8	9	10	11	M	13		7/6
2000	9. WER wide	1	2			5						?		M		4/3
2001	10. WER true	M	M			5			8	9	10		12			7/5
2002	11. WER to burn			P				*			P	11	12			2/4
2003	12. WER squirrel		P						P	P	P	P	P			0/6
2004	W(E)RAD branch. M479.					P		P	P	P	P			P		0/6
2005	WERDH to grow. M494.	P	P			P		P			*	P	P			0/6
2006	1. WERG' to shut off	P	P			P				P						0/4
2007	2. WERG' to do		P	P		5		P		P	10					2/6
2008	3. WERG' to swarm. M2040.	P				P				P						0/3
2009	WER-(E)NA alder, poplar			P				P		P						0/3
2010	WERS to confuse. W/M489.					*			P		P	P	P		P	0/5
2011	WEREN ram, sheep, lamb	1	2	3		5			P		M				M	6/5
2012	1. WES to tarry, live. M498.	P	P	P		P	P		P	P	P			P	P	0/10
2013	2. WES to feast. M498.	P	P						*	P	P				P	0/5
2014	3. WES wet. M127.	P	P			P			P		P					0/5
2015	4. WES to stick, stab	P				M		7		P	10	11	*			4/5
2016	5. WES to clothe. W510.	P	P	P		P		P	P		P			P	P	0/9
2017	6. WES to turn, wrap	P									P					0/2
2018	7. WES to buy, sell	1	M	3		5			8			?	12	M	14	8/6
2019	WESPEROS evening		M	3		5			8	9	10	11	12	M		9/7
2020	WES-R' spring	1	2	3		5			8	P	M	11	12			8/8
2021	WESU good. P498.	P	P				P			P	P	P	P	P		0/8
2022	WET year	1	2	P		5	P	7	8	9	10	11	12		14	10/12
2023	1. WI apart. M686.	P	P			P			P		P	P	P			0/7

No	Root	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Set
2024	2. WI to call, shout					P			P		P	P	P			0/5
2025	WIDHU tree. P/M686.									P	P					0/2
2026	WI-K'M'T-I twenty. P/M686+311.	P	P	P		P		P	P	P				P		0/8
2027	WING' elm		2	M				7			10	11	12			6/5
2028	WIRO man	1	2			?			8	9	10	11	?	13		7/7
2029	WYETH to shake	1		M							10					3/2
2030	WLEK to light, shine	P				*								P		0/2
2031	WL'KWO wolf	1	2			5	P	P	8	P	10	11	12	M		8/10
2032	WL'P canine, e.g. fox	M	2	3		5			P	M		P				5/5
2033	WOBHSA wasp. M1944.		P						P	P	P	P	P			0/6
2034	WOGW-NIS ploughshare					5			8		10	11				4/4
2035	WOKSO wax. P/M1948.										P	P	P			0/3
2036	WORO dizzy, mad. P1994.					P					P					0/2
2037	WORTOKO quail	1	M			5										3/2
2038	1. WRAG'H thorn	M				5				P		P	M			3/3
2039	2. WRAG'H to hit? M2041.					P										0/1
2040	WREG to push, shove	1				5		M	8	9	10	P	P		M	7/7
2041	WREG' to break	M	M	P		5		*		M	M	11	12			7/4
2042	WREN to splash?					P									*	0/1
2043	WRETH to support		*								10	M				2/1
2044	WRUGHYO rye	M	M		4						10	11	12			6/4

No	Root	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Set
1	-ai adv.		2	3		5			8			11	12			6
2	-ayo v. intensive	1				5			8		10	11	12			6
3	-ak(is) adv.			3		5						11	12			4
4	-akos diminutive	1	2	3				7		9		11	12			7
5	-am adv.					5			8			11	12			4
6	-aryo							7	8				12			3
7	-bhos being, creature + 232	1				5										2
8	-dhezos -doer, -wright					5				9		11	12			4
9	-dhi (1) jussive + 365	1	2	3		5						11	12		14	7
10	-dhi (2) adv.							7				11				2
11	-dhi (3) locative			3		5			8				12			4
12	-dhlom, -trom agent	1				5			8			11	12			5
13	-eina, -ina product of								8			11	12			3
14	-eiwos adj. -like								8			11	12		14	4
15	-eyo stative verb	1		3					8				12			4
16	-eyos agent					5						11				2
17	-en ablative			3				7	8							3
18	-en- derivative, associative		2	3					8	9	10	11	12			7
19	-ent, -ont, n't emphatic			3					8	9						3
20	-es-, -os- universal aspect	1	2	3		5		7	8	9	10	11	12		14	11
21	-ewo (1) frequentitive					5						11	12			3
22	-ewo (2) v. functional					5			8			11	12			4
23	-'elos n./adj. extension					5			8	9		11	12			5
24	-'emos superlative	1	2			5		7	8	9	10	11	12		14	10
25	-'er, n' (1) collective	1		3		5			8	9	10		12		14	8
26	-'er (2) adv.	1				5			8		10	11	12	13	14	8
27	-(-e)sk'o inceptive, progressive					5		7	8		10	11	12		14	7
28	-'estis abstract, collective	1	2	3		5		7		9	10	11	12		14	10
29	-'eta abstract	1		3		5			8			11	12		14	7
30	-gws (?)					5						11				2
31	-g'nos (1) beget + 547	1				5			8	9	10		12			6
32	-g'nos (2) know + 548	1	2								10		12			4
33	-i adv.	1		3		5		7	8			11				6
34	-ibhi(s) adv instrumental + 422		2	3		5	6		8		10					6
35	-ibhos way, means, -like	1		3		5					10	11	12			6
36	-iy'e collective	1	2	3		5			8	9	10	11	12			9
37	-iyo v. behaviour formant								8			11	12			3
38	-iyom collective	1							8		10					3
39	-iyos n. adj.	1	2			5		8			10	11	12			7
40	-is(s) derivative					5			8							2
41	-ikos (1) diminutive	1		3		5			8	9		11	12			7
42	-ikos (2) descriptive adj.	1	2			5			8	9	10	11	12			8
43	-ilis adj. of quality							7	8			11	12			4
44	-im (i) adv. instrumental					5		7	8			11	12			5

No	Root	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Set
45	-imos (1) adj. of potential		2			5		7	8			11	12			6
46	-imos (2) v. abstract			3		5		7		9		11	12		14	7
47	-ina adj., n. derivative	1	2	3		5	6	7	8	9	10	11	12			11
48	-inos n. ruler								8		10					2
49	-is (1) adj. of colour	1	2			5			8		10				14	6
50	-is (2) adj. animate	1				5			8		10	11	12		14	7
51	-iski adv.			3		5		7			10	11				5
52	-iskos descriptive adj.					5					10	11	12			4
53	-isk'o v. inceptive, progressive	1		3		5		7	8						14	6
54	-isos low, base, short								8	9		11				3
55	-ister adj.		2			5			8		10					4
56	-istos (1) superlative	1	2			5			8		10					5
57	-istos (2) collective					5							12			2
58	-ita abstract	1				5				9	10		12			5
59	-iteros in pairs + 422	1				5			8	9						4
60	-itiwom collective, abstract								8	9		11	12			4
61	-ity'e collective		2							9	10		12			4
62	-ityos agent			3					8			11	12			4
63	-iwos adj. similar			3		5			8			11	12			5
64	-yesiy'e adj. comparative	1	2								10	11	12			5
65	-yugs joint + 756					5			8							2
66	-li relative prn.					5		7	8			11	12			5
67	-m direction	1				5			8		10					4
68	-ma v. n.	1	2			5		7	8		10	11	12			8
69	-m'e adv.		2										12			2
70	-meyos consistency, composition	1				5										2
71	-men v. n. + 1215	1	2	3		5		7	8		10	11	12			9
72	-mi dative, instrumental					5			8		10	11	12		14	6
73	-mnos pres. fut. middle part.	1	2			5		7	8		10					6
74	-mos v. n.	1		3												2
75	-m' adv.					5			8							2
76	-neu, -nu v fast movement + 1313	1	2	3		5							12		14	6
77	-n'k adv.					5									14	2
78	-n't'e collective					5			8	9				13		4
79	-n'ty'e collective					5			8		10					3
80	-o (1) dual					5			8			11	12			4
81	-o (2) adv.	1	2	3		5			8		10	11	12			8
82	-odhi n. locative			3		5										2
83	oi- correlative + 422		2			5			8		10					4
84	-oi (1) locative sing.	1	2			5			8		10		12			6
85	-oi (2) masc. dual								8				12			2
86	-oi (3) optative					5						11	12			3
87	-ois masc. pl. instr.	1	2			5		7	8			11	12			7
88	-om adv.	1				5			8		10	11	12		14	7
89	-omeno mid. voice part. adj./n.	1	2	3		5		7	8							6

No	Root	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Set
90	-omos pres. pass. part.	1		3					8			11	12			5
91	-on n.		2	3		5			8	9	10	11	12			8
92	-ony'e collective fem.					5		7	8		10		12			5
93	-ont active part. adj.	1		3		5					10	11				5
94	-ot ablative sing.	1	2	3		5						11				5
95	-qwm, -kwm generalisation	1		3					8		10					4
96	-sbhi self + 1542					5						11				2
97	-sd-, -seda sit + 1543	1						7	8		10	11	12			6
98	-si instrumental, locative	1		3		5		7		9	10	11				7
99	-stos (1) n. active meaning to v.		2	3				7			10	11	12			6
100	-stos (2) adj.		2			5		7	8		10	11	12			7
101	-str- fem. agent	1									10					2
102	-stwom (?)		2								10		12			3
103	-t ablative (+ -ot)	1	2	3		5		7	8		10	11	12		14	11
104	-tayos agent					5						11	12			3
105	-tar agent	1	2			5		7					12			5
106	-tat- abstract n.					5			8	9						3
107	-ter abstract								8	9	10			13	14	5
108	-teros comparative	1	2			5		7	8	9	10	11	12	13	14	11
109	-tewyos fut. pass.	1				5										2
110	-ter collective								8		10				14	3
111	-tis v. n. of state/action	1	2			5				9	10	11	12			7
112	-to fut., precative	1				5			8			11	12		14	6
113	-tot jussive	1				5			8		10		12			5
114	-tra localising	1							8		10					3
115	-twa formative	1									10		12			3
116	-ug', -ukos diminutive	1		3		5					10	11	12			6
117	-ulos diminutive	1				5			8		10	11	12			6
118	-um(os) inf., part.			3		5		7	8	9		11				6
119	-uny'e fem.										10		12			2
120	-ur adv.							7	8	9	10	11				5
121	-us (1) fem. adj.	1										11			14	3
122	-us (2) absolute part.	1	2									11	12			4
123	-us (3) fem. n.	1	2			5			8		10	11	12			7
124	-usyo part. n./adj.	1	2			5					10	11	12			6
125	-wor adv. place, time					5		7	8	9		11				5

TABLE TWO

The Sets and Their Distribution

List 1. Sets Containing 14 Occurrences

Maximum Number of Sets of this Type: 1
Number of Sets of this Type Occurring: 4

No.	Pattern	Occurrences	Item Serial Numbers
1.	1 2 3 4 5 6 7 8 9 10 11 12 13 14	4	686, 909, 1313, 1862
	Total Number of Items	4	

List 2. Sets Containing 13 Occurrences

Maximum Number of Sets of this Type: 14
Number of Sets of this Type Occurring: 4

No.	Pattern	Occurrences	Item Serial Numbers
1.	1 2 3 4 5 6 7 8 9 10 11 12 13 x	2	212, 1556
2.	1 2 3 4 5 6 x 8 9 10 11 12 13 14	1	600
3.	1 2 3 4 5 x 7 8 9 10 11 12 13 14	6	199, 359, 422, 479, 1136, 1953
4.	1 2 3 x 5 6 7 8 9 10 11 12 13 14	13	458, 489, 498, 1041, 1191, 1359, 1400, 1401, 1542, 1571, 1591, 1873, 1979
	Total Number of Items	22	

List 3. Sets Containing 12 Occurrences

Maximum Number of Sets of this Type: 91
Number of Sets of this Type Occurring: 8

No.	Pattern	Occurrences	Item Serial Numbers
1.	1 2 3 4 5 x 7 8 9 10 11 12 13 14	10	10, 71, 94, 117, 197, 650, 732, 1138, 1558, 1841
2.	1 2 3 4 5 x 7 8 9 10 11 12 x 14	2	176, 1163
3.	1 2 3 4 5 x 7 8 9 10 x 12 13 14	1	222
4.	1 2 3 x 5 6 7 8 9 10 11 12 13 x	6	64, 547, 1040, 1122, 1201, 1764
5.	1 2 3 x 5 6 7 8 9 10 11 12 x 14	4	473, 1162, 1227, 1284

6.	1	2	3	x	5	x	7	8	9	10	11	12	13	14	35	44, 70, 77, 86, 96, 122, 127, 302, 352, 418, 435, 396, 510, 852, 885, 1072, 1128, 1139, 1179, 1283, 1392, 1456, 1488, 1543, 1545, 1550, 1583, 1610, 1718, 1743, 1812, 1832, 1880, 1888, 1905
7.	1	2	x	x	5	6	7	8	9	10	11	12	13	14	1	957
8.	1	x	3	4	5	x	7	8	9	10	11	12	13	14	1	638
														Total Number of Items	60	

List 4. Sets Containing 11 Occurrences

Maximum Number of Sets of this Type: 364
Number of Sets of this Type Occurring: 23

No.	Pattern														Occurrences	Item Serial Numbers
1.	1	2	3	4	5	6	x	8	9	10	11	12	x	x	1	271
2.	1	2	3	4	5	x	7	8	9	10	11	12	x	x	2	141, 617
3.	1	2	3	4	5	x	7	8	9	10	x	x	13	14	1	1174
4.	1	2	3	4	5	x	7	x	9	10	11	12	x	14	1	668
5.	1	2	3	4	5	x	x	8	9	10	11	12	13	x	1	679
6.	1	2	3	4	5	x	x	8	9	10	11	x	13	14	1	553
7.	1	2	3	4	5	x	x	x	9	10	11	12	13	14	1	694
8.	1	2	3	x	5	6	7	8	9	10	11	12	x	x	4	232, 636, 1377, 1633
9.	1	2	3	x	5	6	7	8	9	x	11	12	x	14	1	1351
10.	1	2	3	x	5	6	7	8	x	10	11	12	x	14	2	429, 1343
11.	1	2	3	x	5	6	x	8	9	10	11	12	13	x	1	940
12.	1	2	3	x	5	6	x	8	9	10	11	12	x	14	2	345, 1229
13.	1	2	3	x	5	6	x	8	9	10	11	x	13	14	1	444
14.	1	2	3	x	5	x	7	8	9	10	11	12	x	14	11	305, 333, 337, 559, 730, 803, 905, 1045, 1420, 1754, 1839
15.	1	2	3	x	5	x	7	8	9	10	11	12	13	x	25	311, 327, 465, 548, 642, 695, 696, 821, 841, 880, 906, 983, 994, 1007, 1031, 1182, 1245, 1332, 1398, 1442, 1534, 1678, 1799, 1840, 1851
16.	1	2	3	x	5	x	7	8	9	x	11	12	13	14	2	1025, 1384
17.	1	2	3	x	5	x	x	8	9	10	11	12	13	14	5	612, 711, 893, 1020, 1372,
18.	1	2	x	4	5	x	7	8	9	10	11	12	x	14	1	187
19.	1	2	x	5	x	x	7	8	9	10	11	12	13	14	7	26, 130, 363, 767, 1067, 1298, 1664
20.	1	x	3	x	5	6	7	8	9	10	11	12	x	14	2	1134, 1773
21.	x	2	3	4	5	x	7	8	9	10	11	12	13	x	1	546

22.	x	2	3	4	5	x	7	8	9	10	11	12	x	14	1	946
23.	x	2	3	x	5	x	7	8	9	10	11	12	13	14	1	1699
														Total Number of Items	74	

List 5. Sets Containing 10 Occurrences

Maximum Number of Sets of this Type: 1001
Number of Sets of this Type Occurring: 22

No.	Pattern														Occurrences	Item Serial Numbers
1.	1	2	3	4	5	x	x	8	9	10	11	12	x	x	1	1753
2.	1	2	3	x	5	6	7	8	9	10	x	12	x	x	1	294
3.	1	2	3	x	5	6	x	8	9	10	11	12	x	x	1	216
4.	1	2	3	x	5	x	7	8	9	10	11	12	x	x	33	227, 297, 364, 382, 432, 524, 537, 562, 603, 788, 811, 827, 829, 843, 904, 920, 1082, 1092, 1166, 1213, 1241, 1385, 1390, 1399, 1457, 1548, 1549, 1621, 1708, 1727, 1739, 1798, 1922
5.	1	2	3	x	5	x	7	8	x	10	11	12	13	x	2	436, 544
6.	1	2	3	x	5	x	7	x	9	10	11	12	13	x	2	168, 1623
7.	1	2	3	x	5	x	7	x	9	10	11	12	x	14	1	1982
8.	1	2	3	x	5	x	x	8	9	10	11	x	13	14	2	1564, 1713
9.	1	2	3	x	5	x	x	8	9	10	11	12	x	14	8	121, 126, 317, 424, 462, 828, 1169, 13
10.	1	2	3	x	5	x	x	8	9	10	11	12	13	x	14	49, 79, 124, 367, 415, 456, 494, 598, 820, 1070, 1084, 1185, 1360, 1553
11.	1	2	3	x	5	x	x	8	9	x	11	12	13	14	1	1971
12.	1	2	x	x	5	x	7	8	9	10	11	12	13	x	6	309, 1176, 1330, 1493, 1768, 1786
13.	1	2	x	x	5	x	7	8	9	10	11	12	x	14	2	1541, 2022
14.	1	2	x	x	5	x	x	8	9	10	11	12	13	14	3	113, 756, 1974
15.	1	x	3	x	5	x	7	8	9	10	11	12	13	x	1	555
16.	1	x	3	x	5	x	7	8	9	10	11	12	x	14	4	214, 846, 1269, 1387
17.	1	x	3	x	5	x	x	8	9	10	11	12	13	14	1	1701
18.	1	x	x	x	5	x	7	8	9	10	11	12	13	14	2	1103, 1980
19.	x	2	3	4	5	x	7	8	9	10	11	12	x	x	1	157
20.	x	2	3	x	5	x	7	8	9	10	11	12	13	x	1	741
21.	x	2	3	x	5	x	7	8	9	10	11	12	x	14	1	451
22.	x	2	3	x	5	x	x	8	9	10	11	12	13	14	1	1425
														Total Number of Items	89	

List 6. Sets Containing 9 Occurrences

Maximum Number of Sets of this Type: 2002
Number of Sets of this Type Occurring: 51

No.	Pattern														Occurrences	Item Serial Numbers
1.	1	2	3	4	x	6	x	x	9	10	x	12	13	x	1	1155
2.	1	2	3	x	5	x	7	8	9	10	11	x	x	x	3	236, 777, 1421
3.	1	2	3	x	5	x	7	8	9	10	x	12	x	x	3	332, 509, 1029
4.	1	2	3	x	5	x	7	8	9	10	x	x	13	x	1	1694
5.	1	2	3	x	5	x	7	8	9	x	11	12	x	x	1	1331
6.	1	2	3	x	5	x	7	8	x	10	11	12	x	x	3	550, 605, 1403
7.	1	2	3	x	5	x	7	8	x	10	11	x	13	x	2	1383, 1702
8.	1	2	3	x	5	x	7	x	9	10	11	12	x	x	6	379, 520, 793, 1142, 1336, 1917
9.	1	2	3	x	5	x	7	x	x	10	11	12	x	14	1	365
10.	1	2	3	x	5	x	x	8	9	10	11	12	x	x	13	215, 860, 886, 910, 993, 1075, 1334, 1518, 1538, 1618, 1673, 1861, 1957
11.	1	2	3	x	5	x	x	8	9	10	11	x	13	x	1	1790
12.	1	2	3	x	5	x	x	8	9	10	x	x	13	14	3	105, 1765, 1949
13.	1	2	3	x	5	x	x	8	x	10	11	12	13	x	1	1963
14.	1	2	3	x	5	x	x	x	9	10	11	12	13	x	1	184
15.	1	2	3	x	5	x	x	x	9	10	11	12	x	14	1	1920
16.	1	2	3	x	5	x	x	x	9	10	x	12	13	14	1	869
17.	1	2	3	x	x	x	7	8	9	10	11	12	x	x	2	1000, 1018
18.	1	2	3	x	x	x	7	8	9	10	x	12	x	14	1	1859
19.	1	2	3	x	x	x	x	8	9	10	11	12	13	x	1	1411
20.	1	2	3	x	x	x	x	8	9	10	11	12	x	14	1	849
21.	1	2	x	4	5	x	x	8	9	x	11	12	13	x	1	172
22.	1	2	x	4	5	x	x	x	9	10	11	12	13	x	1	233
23.	1	2	x	x	5	x	7	8	9	10	11	12	x	x	10	536, 725, 729, 809, 896, 1043, 1129, 1301, 1491, 1951
24.	1	2	x	x	5	x	7	8	9	10	11	x	13	x	1	442
25.	1	2	x	x	5	x	7	8	9	10	x	x	13	14	1	1214
26.	1	2	x	x	5	x	7	8	x	10	11	x	13	14	1	1145
27.	1	2	x	x	5	x	7	x	9	10	11	12	13	x	3	290, 381, 1715
28.	1	2	x	x	5	x	x	8	9	10	11	12	13	x	5	1140, 1248, 1281, 1376, 1944
29.	1	2	x	x	5	x	x	8	9	10	11	12	x	14	3	99, 981, 1924
30.	1	2	x	x	5	x	x	8	x	10	11	12	13	14	1	72
31.	1	2	x	x	5	x	x	x	9	10	11	12	13	14	1	1946
32.	1	2	x	x	x	x	7	8	9	10	11	12	x	14	1	1095
33.	1	2	x	x	x	x	7	8	x	10	11	12	13	14	1	354
34.	1	x	3	x	5	6	x	8	9	10	11	12	x	x	1	1198
35.	1	x	3	x	5	x	7	8	9	10	11	12	x	x	7	556, 799, 867, 1258, 1350, 1386, 1471
36.	1	x	3	x	5	x	7	8	x	10	11	12	13	x	1	1860

37.	1	x	3	x	5	x	x	8	9	10	11	12	13	x	2	445, 1519
38.	1	x	3	x	5	x	x	8	9	10	11	12	x	14	2	1071, 1354
39.	1	x	3	x	5	x	x	8	9	10	11	x	13	14	1	1529
40.	1	x	x	x	5	6	7	8	x	10	11	12	x	14	1	1061
41.	1	x	x	x	5	6	x	8	9	10	11	12	13	x	1	1144
42.	1	x	x	x	5	x	x	8	9	10	11	12	13	14	1	1181
43.	x	2	3	4	5	x	x	x	9	10	11	12	13	x	1	1157
44.	x	2	3	x	5	x	7	8	9	10	11	12	x	x	2	158, 1676
45.	x	2	3	x	5	x	7	8	x	10	11	12	x	14	2	480, 1356
46.	x	2	3	x	5	x	x	8	9	10	11	12	13	x	2	1818, 2019
47.	x	2	3	x	x	x	x	8	9	10	11	12	13	14	1	1282
48.	x	2	x	4	5	x	7	8	9	10	11	12	x	x	1	194
49.	x	2	x	x	5	x	7	8	9	10	11	12	13	x	1	1624
50.	x	x	3	x	5	x	7	8	9	10	11	12	13	x	1	101
51.	x	x	3	x	5	x	7	8	9	10	11	12	x	14	1	1733

Total Number of Items 107

List 7. Sets Containing 8 Occurrences

Maximum Number of Sets of this Type: 3003
Number of Sets of this Type Occurring: 65

No.	Pattern														Occurrences	Item Serial Numbers
1.	1	2	3	4	5	x	7	x	9	x	11	x	x	x	1	11
2.	1	2	3	4	5	x	7	x	9	x	x	12	x	x	1	607
3.	1	2	3	4	5	x	x	8	x	10	x	12	x	x	1	1692
4.	1	2	3	4	x	x	x	x	9	10	11	12	x	x	1	611
5.	1	2	3	x	5	x	7	8	9	x	x	x	13	x	1	1164
6.	1	2	3	x	5	x	7	8	x	10	11	x	x	x	2	211, 1802
7.	1	2	3	x	5	x	7	8	x	10	x	12	x	x	2	1272, 1374
8.	1	2	3	x	5	x	7	x	9	x	11	12	x	x	1	911
9.	1	2	3	x	5	x	7	x	x	10	11	12	x	x	1	146
10.	1	2	3	x	5	x	x	8	9	10	11	x	x	x	5	903, 1006, 1472, 1580, 1795
11.	1	2	3	x	5	x	x	8	9	10	x	12	x	x	1	591
12.	1	2	3	x	5	x	x	8	9	10	x	x	13	x	1	1427
13.	1	2	3	x	5	x	x	8	x	10	11	12	x	x	3	1008, 1375, 2020
14.	1	2	3	x	5	x	x	8	x	x	11	x	13	14	1	502
15.	1	2	3	x	5	x	x	8	x	x	x	12	13	14	1	2018
16.	1	2	3	x	5	x	x	x	9	10	11	12	x	x	3	185, 495, 1869
17.	1	2	3	x	5	x	x	x	9	10	x	12	13	x	1	391
18.	1	2	3	x	5	x	x	x	9	10	x	12	x	14	1	1357
19.	1	2	3	x	5	x	x	x	x	10	11	12	13	x	1	631
20.	1	2	3	x	x	x	7	x	9	10	11	12	x	x	3	781, 791, 884
21.	1	2	3	x	x	x	7	x	x	10	11	x	13	14	1	1231
22.	1	2	3	x	x	x	x	8	9	10	11	12	x	x	2	1175, 1993
23.	1	2	3	x	x	x	x	8	x	10	11	12	x	14	1	769

24.	1	2	3	x	x	x	x	x	9	10	11	12	x	14	2	488, 815
25.	1	2	x	x	5	6	x	8	9	10	11	x	x	x	1	400
26.	1	2	x	x	5	x	7	8	9	10	11	x	x	x	1	1954
27.	1	2	x	x	5	x	7	8	9	10	x	12	x	x	1	1792
28.	1	2	x	x	5	x	7	8	9	10	x	x	x	14	1	1414
29.	1	2	x	x	5	x	7	8	x	10	11	12	x	x	1	916
30.	1	2	x	x	5	x	7	x	9	10	11	12	x	x	4	326, 368, 1408, 1755
31.	1	2	x	x	5	x	7	x	9	10	x	12	13	x	3	468, 719, 1603
32.	1	2	x	x	5	x	x	8	9	10	11	12	x	x	14	14, 461, 596, 792, 830, 1016, 1063, 1087, 1196, 1242, 1342, 1704, 1829, 1964
33.	1	2	x	x	5	x	x	8	9	10	11	x	13	x	2	210, 1950
34.	1	2	x	x	5	x	x	8	9	10	x	x	13	14	1	1587
35.	1	2	x	x	5	x	x	8	9	x	11	12	x	14	1	1584
36.	1	2	x	x	5	x	x	8	x	10	11	12	13	x	1	2031
37.	1	2	x	x	5	x	x	8	x	10	11	12	x	14	2	463, 693
38.	1	2	x	x	5	x	x	8	x	10	11	x	13	14	1	1297
39.	1	2	x	x	x	x	7	8	9	10	11	12	x	x	1	221
40.	1	2	x	x	x	x	x	8	9	10	11	12	13	x	2	1286, 1849
41.	1	x	3	x	5	x	7	8	9	10	x	12	x	x	1	845
42.	1	x	3	x	5	x	7	x	9	10	11	12	x	x	3	314, 378, 1104
43.	1	x	3	x	5	x	x	8	9	10	11	12	x	x	4	639, 1125, 1224, 1328
44.	1	x	3	x	5	x	x	8	9	10	x	12	x	14	1	1346
45.	1	x	3	x	5	x	x	8	x	10	11	12	x	14	1	1028
46.	1	x	3	x	x	x	7	8	9	10	11	12	x	x	2	192, 193
47.	1	x	3	x	x	x	7	8	x	10	11	12	13	x	1	1210
48.	1	x	3	x	x	x	x	8	9	10	11	12	13	x	1	38
49.	1	x	x	x	5	x	7	8	9	10	11	12	x	x	4	273, 557, 868, 901
50.	1	x	x	x	5	x	x	8	9	10	11	12	x	14	2	844, 1599
51.	x	2	3	x	5	x	7	8	9	10	11	x	x	x	1	1975
52.	x	2	3	x	5	x	7	8	x	10	11	12	x	x	1	1270
53.	x	2	3	x	5	x	7	x	9	10	11	12	x	x	1	879
54.	x	2	3	x	5	x	x	8	9	x	11	12	13	x	1	1563
55.	x	2	3	x	5	x	x	x	9	10	11	12	x	14	1	1645
56.	x	2	x	x	5	x	7	8	9	10	11	12	x	x	2	629, 1105
57.	x	2	x	x	5	x	7	8	9	10	x	12	13	x	1	1581
58.	x	2	x	x	5	x	x	8	9	10	11	12	13	x	1	526
59.	x	2	x	x	5	x	x	8	9	10	11	12	x	14	1	1585
60.	x	x	3	4	5	x	7	8	9	10	x	12	x	x	1	180
61.	x	x	3	x	5	x	7	8	9	10	11	12	x	x	3	532, 585, 985
62.	x	x	3	x	5	x	x	8	9	10	11	12	x	14	1	1559
63.	x	x	x	x	5	x	7	8	9	10	11	12	13	x	1	1116
64.	x	x	x	x	5	x	7	8	9	10	11	12	x	x	1	1456
65.	x	x	x	x	5	x	x	8	9	10	11	12	13	14	1	955
														Total Number of Items	113	

List 8. Sets Containing 7 Occurrences

Maximum Number of Sets of this Type: 3482
Number of Sets of this Type Occurring: 70

No.	Pattern														Occurrences	Item Serial Numbers
1.	1	2	3	x	5	x	7	x	x	10	x	x	13	x	1	754
2.	1	2	3	x	5	x	x	8	9	10	x	x	x	x	1	351
3.	1	2	3	x	5	x	x	8	9	x	11	x	x	x	1	1215
4.	1	2	3	x	5	x	x	8	9	x	x	12	x	x	1	1707
5.	1	2	3	x	5	x	x	x	9	10	11	x	x	x	1	306
6.	1	2	3	x	5	x	x	x	9	10	x	12	x	x	2	1619, 1809
7.	1	2	3	x	5	x	x	x	9	x	11	x	13	x	1	1221
8.	1	2	3	x	5	x	x	x	x	10	11	12	x	x	2	875, 1640
9.	1	2	3	x	x	x	7	8	x	x	11	12	x	x	1	1147
10.	1	2	3	x	x	x	7	8	x	x	x	12	13	x	1	877
11.	1	2	3	x	x	x	7	x	9	10	11	x	x	x	1	1639
12.	1	2	3	x	x	x	x	8	9	10	11	x	x	x	2	189, 529
13.	1	2	3	x	x	x	x	x	9	10	11	12	x	x	2	1637, 1833
14.	1	2	3	x	x	x	x	x	9	x	11	12	x	14	1	1402
15.	1	2	x	x	5	x	7	8	9	10	x	x	x	x	1	601
16.	1	2	x	x	5	x	7	8	9	x	x	x	13	x	1	393
17.	1	2	x	x	5	x	7	8	x	x	11	12	x	x	1	1454
18.	1	2	x	x	5	x	7	x	x	10	11	12	x	x	1	1686
19.	1	2	x	x	5	x	x	8	9	10	11	x	x	x	3	942, 1682, 1984
20.	1	2	x	x	5	x	x	8	9	10	x	12	x	x	5	125, 775, 814, 1256, 2001
21.	1	2	x	x	5	x	x	8	9	10	x	x	13	x	1	1300
22.	1	2	x	x	5	x	x	8	9	x	11	12	x	x	2	750, 789
23.	1	2	x	x	5	x	x	8	9	x	x	12	x	14	1	1745
24.	1	2	x	x	5	x	x	8	x	10	11	12	x	x	3	515, 538, 1871
25.	1	2	x	x	5	x	x	8	x	10	x	12	x	14	3	88, 423, 516
26.	1	2	x	x	5	x	x	x	9	10	11	12	x	x	3	263, 888, 2041
27.	1	2	x	x	5	x	x	x	9	10	x	12	x	14	1	1249
28.	1	2	x	x	5	x	x	x	x	10	11	12	13	x	1	701
29.	1	2	x	x	5	x	x	x	x	10	x	12	13	14	1	1943
30.	1	2	x	x	x	x	7	8	x	10	11	12	x	x	2	1005, 1998
31.	1	2	x	x	x	x	7	x	9	10	11	12	x	x	2	881, 1876
32.	1	2	x	x	x	x	x	8	9	10	11	12	x	x	2	1355, 1594
33.	1	2	x	x	x	x	x	8	9	10	11	x	13	x	1	2028
34.	1	x	3	4	5	x	x	8	x	x	11	12	x	x	1	753
35.	1	x	3	x	5	x	7	8	9	x	x	12	x	x	1	73
36.	1	x	3	x	5	x	7	x	x	10	11	12	x	x	1	119
37.	1	x	3	x	5	x	x	8	9	10	11	x	x	x	1	1570
38.	1	x	3	x	5	x	x	8	9	10	x	x	x	14	1	1530
39.	1	x	3	x	5	x	x	8	9	x	11	x	x	14	1	823
40.	1	x	3	x	5	x	x	8	x	10	11	x	x	14	1	83
41.	1	x	3	x	5	x	x	8	x	10	x	12	13	x	1	1985
42.	1	x	3	x	x	x	7	x	9	10	11	12	x	x	1	425
43.	1	x	3	x	x	x	x	8	9	10	11	12	x	x	2	202, 486

44.	1	x	x	x	5	x	7	8	9	10	x	12	x	x	1	1021
45.	1	x	x	x	5	x	7	8	9	10	x	x	13	x	1	703
46.	1	x	x	x	5	x	7	8	9	10	x	x	x	14	1	2040
47.	1	x	x	x	5	x	7	8	9	x	11	12	x	x	1	795
48.	1	x	x	x	5	x	7	8	x	10	11	12	x	x	3	386, 915, 1604
49.	1	x	x	x	5	x	7	x	9	10	x	12	13	x	1	634
50.	1	x	x	x	5	x	x	8	9	10	11	12	x	x	8	586, 779, 935, 939, 1053, 1073, 1749, 1762
51.	1	x	x	x	5	x	x	8	9	10	x	12	13	14	1	18
52.	1	x	x	x	5	x	x	8	x	10	11	12	x	14	1	1120
53.	1	x	x	x	x	x	7	8	9	10	11	12	x	x	1	813
54.	x	2	3	4	5	x	x	x	x	10	11	12	x	x	1	431
55.	x	2	3	x	5	x	7	8	x	x	11	12	x	x	1	692
56.	x	2	3	x	5	x	x	8	9	10	x	12	x	x	1	286
57.	x	2	3	x	5	x	x	x	9	10	11	12	x	x	3	325, 1036, 1261
58.	x	2	x	x	5	x	7	8	9	10	x	12	x	x	1	1353
59.	x	2	x	x	5	x	7	8	x	10	11	12	x	x	1	1057
60.	x	2	x	x	5	x	7	x	9	10	11	12	x	x	1	1268
61.	x	2	x	x	5	x	x	8	9	10	11	12	x	x	5	1165, 1646, 1815, 1824, 1847
62.	x	2	x	x	5	x	x	8	9	x	11	12	x	14	1	1296
63.	x	x	3	x	5	x	7	8	x	10	11	12	x	x	1	1560
64.	x	x	3	x	5	x	x	8	9	10	11	12	x	x	5	663, 1562, 1665, 1794, 1901
65.	x	x	3	x	5	x	x	8	x	10	11	12	13	x	1	137
66.	x	x	3	x	x	x	7	8	9	10	x	12	13	x	1	1882
67.	x	x	x	4	5	x	x	8	9	10	x	12	13	x	1	6
68.	x	x	x	x	5	x	7	8	9	10	11	12	x	x	4	230, 930, 1076, 1131
69.	x	x	x	x	5	x	7	8	9	x	11	12	x	14	1	1588
70.	x	x	x	x	5	x	x	8	9	10	11	12	13	x	4	242, 800, 1960, 1999
														Total Number of Items	116	

List 9. Sets Containing 6 Occurrences

Maximum Number of Sets of this Type: 3003
Number of Sets of this Type Occurring: 81

No.	Pattern														Occurrences	Item Serial Numbers
1.	1	2	3	x	5	x	x	8	x	x	11	x	x	x	1	1094
2.	1	2	3	x	5	x	x	8	x	x	x	x	x	14	1	1909
3.	1	2	3	x	5	x	x	x	x	10	x	x	x	14	1	2011
4.	1	2	3	x	5	x	x	x	x	x	11	12	x	x	1	1907
5.	1	2	3	x	x	x	7	8	x	10	x	x	x	x	1	237
6.	1	2	3	x	x	x	7	x	9	10	x	x	x	x	1	1566
7.	1	2	3	x	x	x	7	x	x	10	11	x	x	x	1	349
8.	1	2	3	x	x	x	x	8	9	10	x	x	x	x	1	953
9.	1	2	3	x	x	x	x	x	9	10	11	x	x	x	2	295, 1246

10.	1	2	3	x	x	x	x	x	x	10	11	12	x	x	2	1146, 2044
11.	1	2	x	x	5	x	7	8	9	x	x	x	x	x	1	1278
12.	1	2	x	x	5	x	7	x	9	x	11	x	x	x	1	1474
13.	1	2	x	x	5	x	7	x	x	10	11	x	x	x	2	1473, 1506
14.	1	2	x	x	5	x	7	x	x	x	11	12	x	x	1	766
15.	1	2	x	x	5	x	x	8	9	10	x	x	x	x	5	50, 464, 565, 1807, 1923
16.	1	2	x	x	5	x	x	8	9	x	x	12	x	x	1	131
17.	1	2	x	x	5	x	x	8	x	10	11	x	x	x	3	513, 1921, 1983
18.	1	2	x	x	5	x	x	8	x	10	x	12	x	x	1	576
19.	1	2	x	x	5	x	x	x	9	10	x	12	x	x	1	1460
20.	1	2	x	x	5	x	x	x	9	x	11	12	x	x	2	721, 744
21.	1	2	x	x	5	x	x	x	9	x	11	x	x	14	1	1180
22.	1	2	x	x	5	x	x	x	x	10	11	12	x	x	6	438, 630, 824, 826, 1373, 1540
23.	1	2	x	x	5	x	x	x	x	x	11	12	13	x	1	697
24.	1	2	x	x	x	6	x	x	9	x	11	12	x	x	1	922
25.	1	2	x	x	x	x	x	8	9	10	11	x	x	x	2	855, 1340
26.	1	2	x	x	x	x	x	8	9	x	11	12	x	x	1	1037
27.	1	2	x	x	x	x	x	8	x	10	11	12	x	x	1	1
28.	1	x	3	x	5	x	7	8	9	x	x	x	x	x	1	801
29.	1	x	3	x	5	x	7	x	9	10	x	x	x	x	1	355
30.	1	x	3	x	5	x	x	8	9	10	x	x	x	x	2	449, 561
31.	1	x	3	x	5	x	x	8	x	10	x	x	13	x	1	1335
32.	1	x	3	x	5	x	x	x	9	10	11	x	x	x	2	58, 1192
33.	1	x	3	x	5	x	x	x	9	10	x	12	x	x	1	1609
34.	1	x	3	x	5	x	x	x	9	x	x	12	13	x	1	640
35.	1	x	3	x	x	x	7	8	x	10	x	x	13	x	1	68
36.	1	x	3	x	x	x	7	x	9	10	11	x	x	x	1	1670
37.	1	x	3	x	x	x	x	8	x	10	11	12	x	x	2	63, 530
38.	1	x	x	4	5	x	7	8	9	x	x	x	x	x	1	567
39.	1	x	x	4	5	x	x	8	9	x	x	12	x	x	1	155
40.	1	x	x	x	5	x	7	8	x	10	11	x	x	x	1	1590
41.	1	x	x	x	5	x	x	8	9	10	11	x	x	x	5	492, 952, 963, 1080, 1141
42.	1	x	x	x	5	x	x	8	9	10	x	12	x	x	2	1059, 1345
43.	1	x	x	x	5	x	x	8	9	x	11	12	x	x	2	450, 1363
44.	1	x	x	x	5	x	x	8	x	10	11	12	x	x	3	523, 873, 1511
45.	1	x	x	x	5	x	x	x	9	10	11	12	x	x	1	978
46.	1	x	x	x	5	x	x	x	9	10	x	x	13	14	1	1305
47.	1	x	x	x	x	x	7	8	9	10	x	12	x	x	2	225, 433
48.	1	x	x	x	x	x	7	x	9	10	11	12	x	x	2	1024, 1875
49.	1	x	x	x	x	x	7	x	9	x	11	12	13	x	1	1846
50.	1	x	x	x	x	x	x	8	9	10	11	12	x	x	3	933, 1453, 1525
51.	1	x	x	x	x	x	x	8	9	10	11	x	x	14	1	1531
52.	x	2	3	x	5	x	x	8	9	10	x	x	x	x	2	1026, 1419
53.	x	2	3	x	5	x	x	8	9	x	x	12	x	x	1	1316
54.	x	2	3	x	x	x	7	x	x	10	11	12	x	x	2	534, 2027
55.	x	2	3	x	x	x	x	x	9	10	11	12	x	x	2	1243, 1631
56.	x	2	x	x	5	x	7	8	x	x	11	12	x	x	1	170
57.	x	2	x	x	5	x	x	8	x	10	11	12	x	x	5	51, 794, 1102, 1271, 1479
58.	x	2	x	x	5	x	x	x	9	10	11	12	x	x	3	554, 747, 1658

59.	x	2	x	x	7	8	x	x	x	10	11	12	x	x	1	69
60.	x	2	x	x	x	x	x	8	9	10	11	12	x	x	1	816
61.	x	2	x	x	x	x	x	8	x	10	11	12	x	14	2	1872, 1887
62.	x	x	3	x	5	x	7	8	x	10	x	12	x	x	1	1361
63.	x	x	3	x	5	x	7	x	9	10	11	x	x	x	2	407, 1724
64.	x	x	3	x	5	x	7	x	9	10	x	12	x	x	1	776
65.	x	x	3	x	5	x	x	x	9	10	11	12	x	x	4	525, 580, 1620, 1677
66.	x	x	3	x	5	x	x	x	x	10	11	12	13	x	1	323
67.	x	x	3	x	x	x	7	8	x	10	11	12	x	x	1	150
68.	x	x	3	x	x	x	x	8	9	10	11	12	x	x	1	1079
69.	x	x	3	x	x	x	x	8	9	10	11	x	x	14	1	1199
70.	x	x	3	x	x	x	x	x	9	10	11	12	x	14	1	123
71.	x	x	x	4	5	x	x	x	9	10	11	12	x	x	1	397
72.	x	x	x	x	5	x	7	8	9	10	11	x	x	x	1	338
73.	x	x	x	x	5	x	7	8	9	x	11	12	x	x	1	1432
74.	x	x	x	x	5	x	7	x	9	10	11	12	x	x	1	272
75.	x	x	x	x	5	x	x	8	9	10	11	12	x	x	6	437, 521, 628, 976, 1060, 1886
76.	x	x	x	x	5	x	x	8	9	10	11	x	13	x	1	1675
77.	x	x	x	x	5	x	x	8	x	10	11	12	x	14	1	1194
78.	x	x	x	x	5	x	x	x	9	10	11	12	13	x	2	606, 1716
79.	x	x	x	x	x	x	7	8	9	10	11	12	x	x	1	1445
80.	x	x	x	x	x	x	7	x	9	10	11	12	13	x	1	1819
81.	x	x	x	x	x	x	x	8	9	10	11	12	x	14	1	138

Total Number of Items 132

List 10. Sets Containing 5 Occurrences

Maximum Number of Sets of this Type: 2002
Number of Sets of this Type Occurring: 81

No.	Pattern														Occurrences	Item Serial Numbers
1.	1	2	3	x	5	x	x	x	9	x	x	x	x	x	1	2032
2.	1	2	3	x	5	x	x	x	x	x	11	x	x	x	3	108, 1001, 1048
3.	1	2	3	x	x	x	x	x	9	10	x	x	x	x	1	1572
4.	1	2	3	x	x	x	x	x	x	10	x	12	x	x	1	996
5.	1	2	3	x	x	x	x	x	x	10	x	x	13	x	1	175
6.	1	2	3	x	x	x	x	x	x	x	11	12	x	x	1	1600
7.	1	2	x	x	5	x	x	8	x	10	x	x	x	x	4	42, 217, 635, 1816
8.	1	2	x	x	5	x	x	8	x	x	11	x	x	x	2	1299, 1911
9.	1	2	x	x	5	x	x	x	9	10	x	x	x	x	1	171
10.	1	2	x	x	5	x	x	x	9	x	11	x	x	x	2	863, 1044
11.	1	2	x	x	5	x	x	x	x	10	11	x	x	x	1	60
12.	1	2	x	x	5	x	x	x	x	10	x	12	x	x	2	328, 330
13.	1	2	x	x	5	x	x	x	x	10	x	x	13	x	1	742
14.	1	2	x	x	5	x	x	x	x	x	11	12	x	x	1	796
15.	1	2	x	x	x	x	x	8	9	10	x	x	x	x	1	1465

16.	1	2	x	x	x	x	x	8	9	x	11	x	x	x	1	1630
17.	1	2	x	x	x	x	x	8	9	x	x	12	x	x	2	1254, 1848
18.	1	2	x	x	x	x	x	8	x	10	11	x	x	x	3	362, 1512, 1685
19.	1	2	x	x	x	x	x	8	x	10	x	12	x	x	1	36
20.	1	2	x	x	x	x	x	8	x	x	11	x	13	x	1	649
21.	1	2	x	x	x	x	x	x	9	10	11	x	x	x	1	416
22.	1	2	x	x	x	x	x	x	9	10	x	12	x	x	2	1253, 1817
23.	1	2	x	x	x	x	x	x	9	10	x	x	x	14	1	1290
24.	1	2	x	x	x	x	x	x	x	10	x	x	13	14	1	43
25.	1	x	3	x	5	x	x	x	x	10	11	x	x	x	1	132
26.	1	x	3	x	5	x	x	x	x	10	x	12	x	x	1	1237
27.	1	x	3	x	5	x	x	x	x	10	x	x	x	14	1	497
28.	1	x	3	x	5	x	x	x	x	x	11	12	x	x	1	358
29.	1	x	3	x	x	x	x	8	x	10	x	12	x	x	1	1158
30.	1	x	3	x	x	x	x	8	x	x	11	12	x	x	1	76
31.	1	x	3	x	x	x	x	x	x	10	11	12	x	x	2	805, 1161
32.	1	x	3	x	x	x	x	x	x	10	x	12	13	x	1	496
33.	1	x	x	x	5	x	7	8	x	10	x	x	x	x	1	1240
34.	1	x	x	x	5	x	7	x	9	10	x	x	x	x	3	303, 471, 680
35.	1	x	x	x	5	x	7	x	x	x	11	x	13	x	1	1569
36.	1	x	x	x	5	x	x	8	9	x	x	12	x	x	1	1294
37.	1	x	x	x	5	x	x	8	x	x	11	12	x	x	1	1050
38.	1	x	x	x	5	x	x	x	9	x	11	12	x	x	1	1042
39.	1	x	x	x	5	x	x	x	9	x	x	12	13	x	1	439
40.	1	x	x	x	5	x	x	x	x	10	11	12	x	x	3	514, 810, 865
41.	1	x	x	x	5	x	x	x	x	10	11	x	13	x	1	1089
42.	1	x	x	x	5	x	x	x	x	x	11	12	13	x	1	191
43.	1	x	x	x	x	x	7	8	x	10	11	x	x	x	1	140
44.	1	x	x	x	x	x	x	8	9	10	x	12	x	x	1	859
45.	1	x	x	x	x	x	x	x	9	10	11	12	x	x	4	1200, 1252, 1509, 1892
46.	1	x	x	x	x	x	x	x	9	10	11	x	13	x	1	1463
47.	1	x	x	x	x	x	x	x	x	10	11	12	13	x	2	980, 1309
48.	x	2	3	x	5	x	7	x	9	x	x	x	x	x	1	840
49.	x	2	3	x	x	x	x	x	9	10	11	x	x	x	1	387
50.	x	2	x	x	5	x	x	8	9	10	x	x	x	x	1	23
51.	x	2	x	x	5	x	x	8	9	x	x	12	x	x	1	1741
52.	x	2	x	x	5	x	x	8	x	10	11	x	x	x	2	1396, 1430
53.	x	2	x	x	5	x	x	8	x	10	x	x	x	14	1	1151
54.	x	2	x	x	5	x	x	x	9	10	11	x	x	x	1	966
55.	x	2	x	x	5	x	x	x	9	x	11	12	x	x	1	739
56.	x	2	x	x	5	x	x	x	x	10	11	12	x	x	2	493, 965
57.	x	2	x	x	x	x	x	8	9	10	x	12	x	x	1	835
58.	x	2	x	x	x	x	x	8	x	10	11	12	x	x	1	446
59.	x	2	x	x	x	x	x	x	9	10	11	12	x	x	2	527, 902
60.	x	x	3	4	5	x	x	x	9	x	x	12	x	x	1	1260
61.	x	x	3	4	x	x	x	x	9	10	11	x	x	x	1	531
62.	x	x	3	x	5	x	x	8	9	10	x	x	x	x	2	539, 1206
63.	x	x	3	x	5	x	x	8	9	x	11	x	x	x	1	655
64.	x	x	3	x	5	x	x	8	x	10	11	x	x	x	1	1123
65.	x	x	3	x	5	x	x	x	9	10	11	x	x	x	1	582

66.	x	x	3	x	5	x	x	x	9	10	x	x	x	14	1	593
67.	x	x	3	x	5	x	x	x	x	10	11	12	x	x	2	383, 483
68.	x	x	3	x	5	x	x	x	x	10	x	12	13	x	1	1808
69.	x	x	3	x	x	x	x	8	9	10	11	x	x	x	1	967
70.	x	x	3	x	x	x	x	8	x	10	11	12	x	x	1	426
71.	x	x	3	x	x	x	x	x	9	10	11	12	x	x	1	623
72.	x	x	x	4	5	x	x	x	9	x	x	12	x	14	1	394
73.	x	x	x	x	5	x	7	8	x	10	x	x	13	x	1	1557
74.	x	x	x	x	5	x	7	8	x	x	11	12	x	x	1	1324
75.	x	x	x	x	5	x	x	8	9	10	11	x	x	x	3	748, 1497, 1973
76.	x	x	x	x	5	x	x	8	9	10	x	12	x	x	5	20, 182, 806, 822, 1211
77.	x	x	x	x	5	x	x	8	9	10	x	x	13	x	1	1554
78.	x	x	x	x	5	x	x	8	9	x	11	12	x	x	1	1190
79.	x	x	x	x	5	x	x	8	x	10	11	12	x	x	6	34, 220, 941, 1423, 1593, 1826
80.	x	x	x	x	5	x	x	8	x	10	11	x	x	14	1	570
81.	x	x	x	x	5	x	x	x	9	10	11	12	x	x	8	226, 331, 560, 613, 894, 895, 1279, 1483
82.	x	x	x	x	5	x	x	x	9	10	x	12	x	14	1	1074
83.	x	x	x	x	x	x	7	8	9	10	11	x	x	x	1	943
84.	x	x	x	x	x	x	7	x	9	10	11	12	x	x	2	1078, 1508
85.	x	x	x	x	x	x	x	8	9	10	11	12	x	x	9	183, 240, 519, 1098, 1121, 1257, 1464, 1622, 1709
86.	x	x	x	x	x	x	x	8	x	10	11	12	13	x	1	934
87.	x	x	x	x	x	x	x	8	x	10	11	12	x	14	2	1412, 1927

Total Number of Items 141

List 11. Sets Containing 4 Occurrences

Maximum Number of Sets of this Type: 1001
Number of Sets of this Type Occurring: 79

No.	Pattern														Occurrences	Item Serial Numbers
1.	1	2	3	x	5	x	x	x	x	x	x	x	x	x	1	53
2.	1	2	3	x	x	x	x	x	9	x	x	x	x	x	1	1539
3.	1	2	3	x	x	x	x	x	x	10	x	x	x	x	1	689
4.	1	2	3	x	x	x	x	x	x	x	x	12	x	x	1	12
5.	1	2	x	x	5	x	x	8	x	x	x	x	x	x	1	975
6.	1	2	x	x	5	x	x	x	9	x	x	x	x	x	1	1236
7.	1	2	x	x	5	x	x	x	x	10	x	x	x	x	4	558, 897, 1448, 1836
8.	1	2	x	x	5	x	x	x	x	x	11	x	x	x	1	762
9.	1	2	x	x	5	x	x	x	x	x	x	12	x	x	1	1388
10.	1	2	x	x	5	x	x	x	x	x	x	x	13	x	1	2000
11.	1	2	x	x	5	x	x	x	x	x	x	x	x	14	1	1970
12.	1	2	x	x	x	x	x	8	9	x	x	x	x	x	1	1935
13.	1	2	x	x	x	x	x	x	9	10	x	x	x	x	2	664, 1480

14.	1	2	x	x	x	x	x	x	x	10	x	12	x	x	1	228
15.	1	2	x	x	x	x	x	x	x	10	x	x	13	x	1	760
16.	1	x	3	x	5	x	x	x	x	x	11	x	x	x	2	54, 921
17.	1	x	3	x	x	x	x	x	x	10	11	x	x	x	1	453
18.	1	x	3	x	x	x	x	x	x	x	11	12	x	x	1	162
19.	1	x	x	x	5	x	7	x	x	x	x	12	x	x	1	1238
20.	1	x	x	x	5	x	x	8	x	10	x	x	x	x	1	485
21.	1	x	x	x	5	x	x	x	9	10	x	x	x	x	1	1393
22.	1	x	x	x	5	x	x	x	9	x	11	x	x	x	1	1195
23.	1	x	x	x	5	x	x	x	9	x	x	12	x	x	1	825
24.	1	x	x	x	5	x	x	x	x	10	11	x	x	x	4	31, 1632, 1711, 1726
25.	1	x	x	x	x	x	7	x	9	10	x	x	x	x	1	148
26.	1	x	x	x	x	x	x	8	9	x	x	12	x	x	1	770
27.	1	x	x	x	x	x	x	8	x	10	11	x	x	x	2	427, 785
28.	1	x	x	x	x	x	x	x	9	10	11	x	x	x	6	348, 659, 1135, 1173, 1499, 705
29.	1	x	x	x	x	x	x	x	9	x	11	12	x	x	1	1339
30.	1	x	x	x	x	x	x	x	9	x	x	12	x	x	1	1474
31.	1	x	x	x	x	x	x	x	x	10	11	12	x	x	2	29, 1263
32.	1	x	x	x	x	x	x	x	x	10	x	12	13	x	1	206
33.	x	2	3	x	5	x	x	x	x	10	x	x	x	x	1	1879
34.	x	2	3	x	x	x	x	x	9	10	x	x	x	x	2	282, 707
35.	x	2	3	x	x	x	x	x	x	10	11	x	x	x	1	528
36.	x	2	x	x	5	x	x	8	x	10	x	x	x	x	1	798
37.	x	2	x	x	x	x	x	8	x	10	11	x	x	x	1	1737
38.	x	2	x	x	x	x	x	8	x	10	x	12	x	x	1	219
39.	x	2	x	x	x	x	x	x	9	10	x	12	x	x	2	4, 1902
40.	x	2	x	x	x	x	x	x	x	10	11	12	x	x	2	443, 653
41.	x	2	x	x	x	x	x	x	x	10	11	12	x	x	1	790
42.	x	x	3	4	5	x	x	x	x	10	x	x	x	x	1	341
43.	x	x	3	4	5	x	x	x	x	x	11	x	x	x	1	722
44.	x	x	3	x	5	x	x	8	x	10	x	x	x	x	1	1108
45.	x	x	3	x	5	x	x	x	9	10	x	x	x	x	4	299, 1697, 1736, 1758
46.	x	x	3	x	5	x	x	x	9	x	x	12	x	x	1	715
47.	x	x	3	x	5	x	x	x	x	10	11	x	x	x	1	447
48.	x	x	3	x	5	x	x	x	x	10	x	12	x	x	1	307
49.	x	x	3	x	x	x	7	x	9	10	x	x	x	x	1	1706
50.	x	x	3	x	x	x	x	8	x	10	x	12	x	x	1	682
51.	x	x	3	x	x	x	x	8	x	x	x	12	13	x	1	106
52.	x	x	3	x	x	x	x	x	9	10	x	12	x	x	1	856
53.	x	x	3	x	x	x	x	x	9	x	11	12	x	x	2	430, 1054
54.	x	x	3	x	x	x	x	x	x	10	11	12	x	x	1	267
55.	x	x	3	x	x	x	x	x	x	10	x	12	13	x	1	1698
56.	x	x	x	x	5	x	7	8	9	x	x	x	x	x	2	734, 1066
57.	x	x	x	x	5	x	7	x	9	10	x	x	x	x	1	133
58.	x	x	x	x	5	x	7	x	x	10	11	x	x	x	1	2015
59.	x	x	x	x	5	x	7	x	x	10	x	12	x	x	2	167, 1916
60.	x	x	x	x	5	x	x	8	9	10	x	x	x	x	8	144, 174, 258, 292, 584, 1049, 1578, 1941
61.	x	x	x	x	5	x	x	8	9	x	x	12	x	x	1	1052

62.	x	x	x	x	5	x	x	8	x	10	11	x	x	x	2	1424, 2034
63.	x	x	x	x	5	x	x	8	x	10	x	12	x	x	1	457
64.	x	x	x	x	5	x	x	8	x	x	11	12	x	x	2	347, 1813
65.	x	x	x	x	5	x	x	x	9	10	11	x	x	x	5	1088, 1152, 1644, 1731, 1961
66.	x	x	x	x	5	x	x	x	9	10	x	12	x	x	9	195, 540, 616, 626, 947, 1056, 1099, 1167, 1266
67.	x	x	x	x	5	x	x	x	x	10	11	12	x	x	3	1046, 1197, 1932
68.	x	x	x	x	x	6	7	8	9	x	x	x	x	x	1	1216
69.	x	x	x	x	x	6	x	8	x	10	x	12	x	x	1	662
70.	x	x	x	x	x	x	7	8	9	10	x	x	x	x	1	1081
71.	x	x	x	x	x	x	7	x	9	10	x	12	x	x	2	842, 1947
72.	x	x	x	x	x	x	7	x	x	10	11	12	x	x	2	100, 986
73.	x	x	x	x	x	x	x	8	9	10	11	x	x	x	4	204, 508, 1015, 1669
74.	x	x	x	x	x	x	x	8	9	10	x	12	x	x	1	1291
75.	x	x	x	x	x	x	x	8	9	10	x	x	13	x	1	39
76.	x	x	x	x	x	x	x	8	x	10	11	12	x	x	2	675, 1586
77.	x	x	x	x	x	x	x	x	9	10	11	12	x	x	6	3, 95, 411, 746, 850, 1397
78.	x	x	x	x	x	x	x	x	9	10	11	x	13	x	1	819
79.	x	x	x	x	x	x	x	x	9	10	x	12	x	14	1	1458

Total Number of Items 137

List 12. Sets Containing 3 Occurrences

Maximum Number of Sets of this Type: 364
Number of Sets of this Type Occurring: 75

No.	Pattern														Occurrences	Item Serial Numbers
1.	1	2	x	x	5	x	x	x	x	x	x	x	x	x	1	1486
2.	1	2	x	x	5	x	x	x	x	x	x	x	x	x	3	18, 998, 2037
3.	1	2	x	x	x	x	7	x	x	x	x	x	x	x	1	1003
4.	1	2	x	x	x	x	x	x	x	10	x	x	x	x	3	33, 412, 618
5.	1	x	3	x	5	x	x	x	x	x	x	x	x	x	3	851, 871, 1490
6.	1	x	3	x	x	x	x	x	9	x	x	x	x	x	1	97
7.	1	x	3	x	x	x	x	x	x	10	x	x	x	x	3	727, 1329, 2029
8.	1	x	x	x	5	x	x	8	x	x	x	x	x	x	2	541, 773
9.	1	x	x	x	5	x	x	x	9	x	x	x	x	x	2	300, 1277
10.	1	x	x	x	5	x	x	x	x	x	11	x	x	x	3	37, 334, 961
11.	1	x	x	x	5	x	x	x	x	x	x	12	x	x	3	960, 1431, 2038
12.	1	x	x	x	x	x	7	x	x	x	11	x	x	x	1	783
13.	1	x	x	x	x	x	x	8	9	x	x	x	x	x	1	1320
14.	1	x	x	x	x	x	x	8	x	10	x	x	x	x	1	241
15.	1	x	x	x	x	x	x	8	x	x	11	x	x	x	1	1878
16.	1	x	x	x	x	x	x	8	x	x	x	x	x	14	1	417
17.	1	x	x	x	x	x	x	x	9	10	x	x	x	x	1	862
18.	1	x	x	x	x	x	x	x	9	x	11	x	x	x	3	17, 1307, 1937

19.	1	x	x	x	x	x	x	x	x	10	11	x	x	x	6	61, 839, 1110, 1150, 1774, 1883
20.	1	x	x	x	x	x	x	x	x	x	11	12	x	x	1	1555
21.	1	x	x	x	x	x	x	x	x	x	x	12	x	14	1	1990
22.	x	2	3	x	5	x	x	x	x	x	x	x	x	x	1	1366
23.	x	2	3	x	x	x	x	8	x	x	x	x	x	x	1	115
24.	x	2	3	x	x	x	x	x	x	x	x	12	x	x	1	1034
25.	x	2	x	x	5	x	x	x	9	x	x	x	x	x	1	1777
26.	x	2	x	x	5	x	x	x	x	10	x	x	x	x	1	681
27.	x	2	x	x	5	x	x	x	x	x	x	12	x	x	1	1740
28.	x	2	x	x	x	x	x	8	x	10	x	x	x	x	1	1233
29.	x	2	x	x	x	x	x	x	9	10	x	x	x	x	1	1097
30.	x	2	x	x	x	x	x	x	x	10	11	x	x	x	1	403
31.	x	2	x	x	x	x	x	x	x	10	x	12	x	x	2	535, 1513
32.	x	2	x	x	x	x	x	x	x	x	11	12	x	x	1	889
33.	x	x	3	x	5	x	7	x	x	x	x	x	x	x	1	1338
34.	x	x	3	x	5	x	x	x	x	10	x	x	x	x	2	419, 1576
35.	x	x	3	x	5	x	x	x	x	10	x	x	x	x	1	78
36.	x	x	3	x	5	x	x	x	x	x	11	x	x	x	1	602
37.	x	x	3	x	5	x	x	x	x	x	x	12	x	x	1	625
38.	x	x	3	x	x	x	x	8	9	x	x	x	x	x	1	82
39.	x	x	3	x	x	x	x	8	x	10	x	x	x	x	2	428, 704
40.	x	x	3	x	x	x	x	8	x	x	11	x	x	x	1	360
41.	x	x	3	x	x	x	x	x	9	10	x	x	x	x	2	1109, 1681
42.	x	x	3	x	x	x	x	x	x	10	11	x	x	x	2	594, 614
43.	x	x	3	x	x	x	x	x	x	10	x	12	x	x	3	410, 688, 1801
44.	x	x	3	x	x	x	x	x	x	x	11	12	x	x	1	1502
45.	x	x	x	x	5	x	7	8	x	x	x	x	x	x	2	322, 343
46.	x	x	x	x	5	x	7	x	x	10	x	x	x	x	1	929
47.	x	x	x	x	5	x	7	x	x	x	11	x	x	x	1	726
48.	x	x	x	x	5	x	7	x	x	x	x	12	x	x	2	165, 1466
49.	x	x	x	x	5	x	x	8	9	x	x	x	x	x	2	954, 1469
50.	x	x	x	x	5	x	x	8	x	10	x	x	x	x	4	19, 466, 1168, 1853
51.	x	x	x	x	5	x	x	8	x	x	11	x	x	x	1	676
52.	x	x	x	x	5	x	x	8	x	x	x	12	x	x	3	581, 1344, 1689
53.	x	x	x	x	5	x	x	x	9	10	x	x	x	x	2	200, 239
54.	x	x	x	x	5	x	x	x	9	x	11	x	x	x	1	1844
55.	x	x	x	x	5	x	x	x	x	10	11	x	x	x	4	253, 470, 1608, 1612
56.	x	x	x	x	5	x	x	x	x	10	x	12	x	x	7	32, 335, 551, 724, 972, 1022, 1250
57.	x	x	x	x	5	x	x	x	x	10	x	x	x	14	1	1579
58.	x	x	x	x	5	x	x	x	x	x	11	12	x	x	7	512, 716, 731, 812, 919, 944, 1149
59.	x	x	x	x	x	x	7	8	9	x	x	x	x	x	2	2, 1115
60.	x	x	x	x	x	x	7	x	9	10	x	x	x	x	1	281
61.	x	x	x	x	x	x	7	x	x	10	x	12	x	x	1	914
62.	x	x	x	x	x	x	7	x	x	x	11	12	x	x	1	276
63.	x	x	x	x	x	x	x	8	9	10	x	x	x	x	5	67, 1306, 1381, 1828, 1929
64.	x	x	x	x	x	x	x	8	9	x	11	x	x	x	1	270
65.	x	x	x	x	x	x	x	8	9	x	x	12	x	x	1	1661

66.	x	x	x	x	x	x	x	8	x	10	11	x	x	x	1	48
67.	x	x	x	x	x	x	x	8	x	10	x	12	x	x	5	109, 110, 160, 1093, 1452
68.	x	x	x	x	x	x	x	8	x	10	x	x	13	x	1	344
69.	x	x	x	x	x	x	x	8	x	x	11	12	x	x	3	135, 1023, 1447
70.	x	x	x	x	x	x	x	8	x	x	x	x	13	14	1	1533
71.	x	x	x	x	x	x	x	x	9	10	11	x	x	x	6	190, 277, 284, 372, 1492, 1897
72.	x	x	x	x	x	x	x	x	9	10	x	12	x	x	4	198, 974, 1186, 1219
73.	x	x	x	x	x	x	x	x	9	x	11	12	x	x	1	1662
74.	x	x	x	x	x	x	x	x	9	x	x	12	x	14	1	1772
75.	x	x	x	x	x	x	x	x	x	10	11	12	x	x	5	201, 288, 987, 988, 1107

Total Number of Items 149

List 13. Sets Containing 2 Occurrences

Maximum Number of Sets of this Type: 91
Number of Sets of this Type Occurring: 36

No.	Pattern														Occurrences	Item Serial Numbers
1.	1	2	x	x	x	x	x	x	x	x	x	x	x	x	4	13, 22, 808, 925
2.	1	x	3	x	x	x	x	x	x	x	x	x	x	x	2	658, 661
3.	1	x	x	x	5	x	x	x	x	x	x	x	x	x	2	474, 1153
4.	1	x	x	x	x	x	7	x	x	x	x	x	x	x	1	1725
5.	1	x	x	x	x	x	x	x	9	x	x	x	x	x	1	1730
6.	1	x	x	x	x	x	x	x	x	10	x	x	x	x	2	353, 452
7.	1	x	x	x	x	x	x	x	x	x	11	x	x	x	6	836, 874, 900, 932, 1009, 1642
8.	1	x	x	x	x	x	x	x	x	x	x	12	x	x	2	389, 720
9.	x	2	x	x	5	x	x	x	x	x	x	x	x	x	1	857
10.	x	2	x	x	x	x	x	x	x	10	x	x	x	x	4	114, 336, 1520, 1959
11.	x	2	x	x	x	x	x	x	x	x	11	x	x	x	1	1188
12.	x	2	x	x	x	x	x	x	x	x	x	12	x	x	1	1304
13.	x	x	3	x	5	x	x	x	x	x	x	x	x	x	4	134, 476, 1323, 1467
14.	x	x	3	x	x	x	x	8	x	x	x	x	x	x	1	990
15.	x	x	3	x	x	x	x	x	9	x	x	x	x	x	1	1289
16.	x	x	3	x	x	x	x	x	x	10	x	x	x	x	3	878, 1561, 1595
17.	x	x	3	x	x	x	x	x	x	x	11	x	x	x	1	1068
18.	x	x	4	5	x	x	x	x	x	x	x	x	x	x	1	357
19.	x	x	x	x	5	x	x	8	x	x	x	x	x	x	1	1468
20.	x	x	x	x	5	x	x	x	9	x	x	x	x	x	5	749, 765, 958, 1118, 1717
21.	x	x	x	x	5	x	x	x	x	10	x	x	x	x	13	27, 30, 93, 136, 186, 848, 1160, 1649, 1687, 1690, 1763, 1810, 2007
22.	x	x	x	x	5	x	x	x	x	x	11	x	x	x	3	1032, 1101, 1265
23.	x	x	x	x	5	x	x	x	x	x	x	12	x	x	3	339, 624, 714
24.	x	x	x	x	x	x	7	x	x	10	x	x	x	x	1	1500
25.	x	x	x	x	x	x	7	x	x	x	11	x	x	x	1	533

26.	x	x	x	x	x	x	x	8	9	x	x	x	x	x	2	700, 1654
27.	x	x	x	x	x	x	x	8	x	10	x	x	x	x	5	139, 705, 1362, 1778, 1928
28.	x	x	x	x	x	x	x	8	x	x	11	x	x	x	3	1083, 1434, 1522
29.	x	x	x	x	x	x	x	8	x	x	x	12	x	x	2	404, 817
30.	x	x	x	x	x	x	x	x	9	10	x	x	x	x	7	293, 1114, 1133, 1154, 1660, 1679, 1693
31.	x	x	x	x	x	x	x	x	9	x	11	x	x	x	3	265, 938, 1352
32.	x	x	x	x	x	x	x	x	9	x	x	12	x	x	4	564, 968, 11
33.	x	x	x	x	x	x	x	x	x	10	11	x	x	x	6	568, 684, 948, 1202, 1634, 2043
34.	x	x	x	x	x	x	x	x	x	10	x	12	x	x	6	989, 1126, 1391, 1484, 1575, 1742
35.	x	x	x	x	x	x	x	x	x	x	11	12	x	x	10	98, 575, 936, 1234, 1327, 1439, 1636, 1648, 1900, 2002
36.	x	x	x	x	x	x	x	x	x	x	11	x	x	14	1	1884
														Total Number of Items	114	

List 14. Sets Containing 1 Occurrence

Maximum Number of Sets of this Type: 14
Number of Sets of this Type Occurring: 6

No.	Pattern														Occurrences	Item Serial Numbers
1.	1	x	x	x	x	x	x	x	x	x	x	x	x	x	3	484, 1428, 1895
2.	x	x	3	x	x	x	x	x	x	x	x	x	x	x	1	235
3.	x	x	x	x	5	x	x	x	x	x	x	x	x	x	3	571, 872, 1589
4.	x	x	x	x	x	x	x	x	x	10	x	x	x	x	2	772, 1565
5.	x	x	x	x	x	x	x	x	x	x	11	x	x	x	2	511, 1925
6.	x	x	x	x	x	x	x	x	x	x	x	12	x	x	1	40
														Total Number of Items	12	

TABLE THREE

The Co-occurrences of Language Groups

1a. Number of Co-occurrences of Language Groups (Mann)

Language Group With	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1. Indic	–	547	422	48	605	53	339	524	559	639	588	547	245	196
2. Iranian	547	–	380	50	534	48	301	467	486	568	507	495	225	178
3. Armenian	422	380	–	52	444	48	277	385	420	481	429	417	192	155
4. Phryg/Dac.	48	50	52	–	59	9	39	46	56	53	50	55	35	22
5. Hellenic	605	534	444	59	–	51	361	598	628	731	635	633	250	202
6. Illyrian	53	48	48	9	51	–	42	53	51	52	51	52	31	32
7. Albanian	339	301	277	39	361	42	–	330	347	377	350	353	161	124
8. Italic	524	467	385	46	598	53	330	–	566	648	571	558	235	195
9. Celtic	559	486	420	56	628	51	347	566	–	710	608	605	236	190
10. Germanic	639	568	481	53	731	52	377	648	710	–	727	710	261	207
11. Baltic	588	507	429	50	635	51	350	571	608	727	–	661	234	187
12. Slavonic	547	495	417	55	633	52	353	558	605	710	661	–	232	191
13. Tocharian	245	225	192	35	250	31	161	235	236	261	234	232	–	115
14. Hittite	196	178	155	22	202	32	124	195	190	207	187	191	115	–

1b. Number of Co-occurrences of Language Groups (Pokorny)

Language Group With	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1. Indic	–	577	304	59	714	78	230	578	523	698	591	518	198	119
2. Iranian	577	–	264	52	501	69	189	415	403	497	421	379	167	97
3. Armenian	304	264	–	41	365	54	138	305	280	348	297	247	112	80
4. Phryg/Dac.	59	52	41	–	68	26	28	49	55	64	56	50	23	11
5. Hellenic	714	501	365	68	–	90	266	675	601	809	689	591	209	130
6. Illyrian	78	69	54	26	90	–	36	77	85	92	78	75	35	26
7. Albanian	230	189	138	28	266	36	–	230	208	259	223	216	91	49
8. Italic	578	415	305	49	675	77	230	–	546	730	564	525	185	120
9. Celtic	523	403	280	55	601	85	208	546	–	703	554	509	171	103
10. Germanic	698	497	348	64	809	92	259	730	703	–	828	722	214	120
11. Baltic	591	421	297	56	689	78	223	564	554	828	–	715	181	92
12. Slavonic	518	379	247	50	591	75	216	525	509	722	715	–	165	99
13. Tocharian	198	167	112	23	209	35	91	185	171	214	181	165	–	62
14. Hittite	119	97	80	11	130	26	49	120	103	120	92	99	62	–

2a. Number of Co-occurrences of Language Groups (expressed in %) (Mann)

Language Group With	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1. Indic	–	70	54	6	78	7	44	67	72	82	76	70	31	25
2. Iranian	84	–	58	8	82	7	46	71	74	87	77	76	34	27
3. Armenian	76	69	–	9	80	9	50	69	76	87	77	75	35	28
4. Phryg/Dac.	76	79	83	–	94	14	62	73	89	84	79	87	56	35
5. Hellenic	68	60	50	7	–	6	41	67	71	82	72	71	28	23
6. Illyrian	96	87	87	16	93	–	76	96	93	95	93	95	56	58
7. Albanian	78	70	64	9	83	10	–	76	80	87	81	82	37	29
8. Italic	70	63	52	6	80	7	44	–	76	87	77	75	32	26
9. Celtic	68	59	51	7	77	6	42	69	–	87	74	74	29	23
10. Germanic	63	56	48	5	72	5	37	64	70	–	72	70	26	21
11. Baltic	68	59	50	6	74	6	41	66	71	84	–	77	27	22
12. Slavonic	65	59	50	7	76	6	42	67	72	85	79	–	28	23
13. Tocharian	87	80	68	12	89	11	57	83	84	93	83	82	–	41
14. Hittite	86	78	68	10	88	14	54	85	83	90	82	83	50	–

2b. Number of Co-occurrences of Language Groups (expressed in %) (Pokorny)

Language Group With	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1. Indic	–	57	30	6	71	8	23	57	52	69	59	51	20	12
2. Iranian	85	–	39	8	73	10	28	61	59	73	62	56	24	14
3. Armenian	64	56	–	9	77	11	29	65	59	74	63	52	24	17
4. Phryg/Dac.	73	64	51	–	84	32	35	60	68	79	69	62	28	14
5. Hellenic	58	41	30	6	–	7	22	55	49	66	56	48	17	11
6. Illyrian	67	59	47	22	78	–	31	66	73	79	67	65	30	22
7. Albanian	71	58	42	9	82	11	–	71	64	80	69	66	28	15
8. Italic	60	43	32	5	70	8	24	–	57	76	59	55	19	13
9. Celtic	57	44	30	6	65	9	23	59	–	76	60	55	19	11
10. Germanic	51	36	25	5	59	7	19	53	51	–	60	52	16	9
11. Baltic	54	38	27	5	63	7	20	51	50	75	–	65	16	8
12. Slavonic	55	40	26	5	63	8	23	56	54	77	76	–	18	11
13. Tocharian	76	64	43	9	80	13	35	71	66	82	70	63	–	24
14. Hittite	77	63	52	7	84	17	32	77	66	77	59	64	40	–

3a. Number of Co-occurrences of Language Groups (expressed in terms of the correlation to '1' .x : 1 (Mann)

Language Group With	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1. Indic	–													
2. Iranian	.77													
3. Armenian	.65	63												
4. Phryg/Dac.	.41	43	46											
5. Hellenic	.73	71	65	50										
6. Illyrian	.52	47	48	15	49									
7. Albanian	.61	58	57	35	62	43								
8. Italic	.69	67	61	40	74	52	60							
9. Celtic	.70	67	64	48	74	49	61	73						
10. Germanic	.73	72	67	45	77	50	62	76	79					
11. Baltic	.72	68	64	43	73	49	61	71	73	78				
12. Slavonic	.68	67	63	47	73	50	62	71	73	78	78			
13. Tocharian	.59	57	51	34	58	34	47	57	56	59	55	55		
14. Hittite	.55	52	48	22	55	36	41	56	53	55	52	53	45	–

3b. Number of Co-occurrences of Language Groups (expressed in terms of the correlation to '1' .x : 1 (Pokorny)

Language Group With	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1. Indic	–													
2. Iranian	.71													
3. Armenian	.47	47												
4. Phryg/Dac.	.39	36	30											
5. Hellenic	.64	57	53	45										
6. Illyrian	.38	35	29	27	42									
7. Albanian	.47	43	36	22	52	21								
8. Italic	.59	52	48	33	63	37	47							
9. Celtic	.54	51	45	37	57	41	43	58						
10. Germanic	.60	54	50	42	62	43	50	65	64					
11. Baltic	.56	50	45	37	59	37	45	55	55	58				
12. Slavonic	.53	48	39	34	55	37	45	55	55	65	71			
13. Tocharian	.48	45	33	19	49	22	32	45	42	49	43	41		
14. Hittite	.44	38	34	10	47	20	23	45	39	43	34	37	32	–

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